

**What makes an interesting job? Job characteristic preferences and personality amongst  
undergraduates**



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### **Literature Review**

Modern businesses are increasingly globalised, and technology based. Striving for operational excellence and product quality can no longer provide businesses with sufficient advantage against their competitors. In order to generate an advantage, companies must own resources that are valuable to the organisation, hard to be imitated by competitors, rare in supply and transferrable to other areas of the organisation (Wright, McMahan & McWilliams, 1994). Human capital is one such resource. The basic principles behind human resource management (HRM) practices is to construct and maintain a pool of suitable talents that allows an organisation to differentiate itself from its competitors and gain an advantage (Breugh, 2008). Base on this theoretical stance, companies can adjust recruitment practices to attract people with specific skills and potentials that advantage the organisation in the present and the future, this practice is called targeted recruitment.

By presenting a set of job and organisational characteristics that attracts talents with specific skills, needs and preferences, companies hope to achieve an improved fit between its employees and the organisation. Research in organisational psychology has long supported the theory of person-organisational fit (P-O fit) and the benefits it brings to performance and job satisfaction (Chapman et al., 2005). From a business perspective, recruiting talents that share company values allows them to perform in ways that aligns with organisational image and goals. A strong P-O fit had been shown to improve pre-employment attraction and job satisfaction, which are both predictors of job performance (Chapman et al., 2005).

To investigate the effects of job and organisation characteristics at the recruitment and selection stage, many studies have associated these with attraction and job choice. A meta-analysis by Uggersley and colleagues (2012) summarised results from 232 studies and reported that job and organisation characteristics (e.g. salary, benefits, promotion opportunities, challenges, company reputation, job security, relationship with co-

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workers/supervisor) significantly predicted job attraction and job pursuit decision. Job and organisation characteristics were also significantly correlated with perceived fit with the job and company, which in turn predicted attraction to the job and company. Although no moderation or mediation analysis were conducted, these results suggested that applicants' perceived fit with an organisation is based on their evaluation of job and organisational characteristics being presented, which ultimately affects their attraction and decision to pursue a career in that organisation. Therefore, understanding preferences for job and organisational characteristics allows tailoring of recruitment and selection strategy and better person and job outcomes.

### **Early studies of job characteristic preferences**

Despite years of research interest, there is yet to be a consensus on which job characteristics recruiters should focus on when considering recruitment strategies. Jurgensen (1978) was the first to examine preferences for job characteristics in recruitment practice. His study focused on examining preference for job characteristics amongst 56,621 job applicants of a gas company between 1945 and 1975. Using a self-developed job preference form, job applicants were asked to rank the importance of ten job characteristics for themselves and for the general population. Job characteristics examined included: advancement opportunities, benefits, company reputation, relationship with co-workers, reasonable working hours, salary, job security, considerate and fair supervisor, type of work and working conditions (Jurgensen, 1978).

Jurgensen (1978) concluded that over the 30-year period, there was an increase in the importance of type of work, benefits and pay, and a decrease in preference for advancement and job security. In addition, when comparing rankings for self and for the general population, both men and women consistently predicted salary as more important for other people, and relationship with co-workers to be less important. It was proposed that this

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discrepancy arose from the common perception that money is the primary motivator for work. There were also small differences in preference with respect to age and gender (Jurgensen, 1978). Compared to their older counterparts, men under the age of 20 attached more importance to relationship with co-workers and supervisor, working hours, salary, and working conditions, but they ranked advancement opportunities, benefits and job security lower. Rankings amongst women remain consistent across different age groups, with an emphasis on the type of work performed. In contrast, male generally placed attached higher importance on job security and company reputation compared to female.

Posner (1981) expanded upon Jurgensen's study and compared job characteristics preferences amongst students and company recruiters. It was found that undergraduate students placed higher significance on opportunities to learn and use abilities, as well as performing interesting work. However, students did not express preferences for type of work and pay. On the other hand, expectations of recruiters were found to be reflective of students' most important preferences, but they also expected students to place less significances on autonomy and job security. A misalignment between students' and recruiters' expectations can lead to misunderstandings in the job, therefore reducing job satisfaction and productivity (Posner, 1981). In support of Jurgensen's (1978) results, Harris and Fink (1987) reported that job applicants' perception of the job role, salary and benefits, work environment and company reputation were all important factors for consideration when applying for a job. More importantly, these job characteristics were all positively correlated with applicants' intention to accept job offers. In short, individual differences in job characteristic preferences influence attraction and job pursuit intentions.

However, more recent researchers have proposed that changes in the global business environment have been reflected as changes in the nature of work, leading to new job characteristic emerging (John, 2006). Some changes include a shift from manufacturing to

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service-based industries, expansion of knowledge-based industries, technological advancements that promotes new ways of working and globalisation. As a result, modern job roles are more team-based, offer flexibility in working time and location, and have increased demands on transferable skills (e.g. communication, customer service, word-processing) and specialised knowledge (Wegman, Hoffman, Carter, Twenge and Guenole, 2018). According to the Australian Bureau of Statistics (1991, 2016), the proportion of part-time employee have increased from 15% to 34.5% from 1991 to 2016. The largest industries have also shifted from manufacturing and agricultural to wholesale retail, community service and health care (Australia Bureau of Statistics, 1991; 2016). These continuing changes mean that no longer will an individual be attached to a particular role, field or location for an extended period of time due to working conditions and different types of jobs developing within and between organisations (Hernaus & Vokic, 2014).

To investigate and quantify changes in the business environment, Wegman and colleague (2018) conducted a cross-temporal meta-analysis to examine changes in job characteristics since 1975. Their results were in line with previous literature and suggested that workers perceived a greater level of variety in jobs and increased autonomy since 1975. There were also a greater level of interaction and interdependence between job roles and co-workers since 1985, reflecting the fact that modern job roles are more group-oriented and reliant on communication. Perceived changes in job characteristics were partially a function of gender and occupation; females working in more complex roles perceived a greater level of interdependence compared to their male counterparts. These changes suggest that new generations of workers may have preferences for job characteristic different from previous generations.

### **Job characteristics, preferences and personality**

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Research in job characteristic and preferences is often associated with job and person outcomes. However, there is a lack of research exploring the underpinnings of job characteristic preferences. Given that preferences and personality are theoretically associated, understanding the statistical relationship between the two variables will have implications not only for recruitment and selection, but also for training and development.

Integrating theories of personality and job characteristics, Barricks, Mount and Li (2013) argued that personality traits guide the formation of implicit work goals that vary across individuals. Under the assumption that work behaviours are purposeful in fulfilling these implicit goals, individuals are predisposed to express preferences for certain work characteristics that are consistent with their personality and associated goals. Self-verification theory and selective interaction hypothesis (Heider, 1958; Swann, 1983) provide support for this view and suggest that people confirm self-concepts through expressing preferences for, and selection of, certain life experiences, and therefore are motivated to seek out situations that provide self-verifying feedback. For example, individuals with higher personality scores on neuroticism or anxiety may actively seek consistency and predictability in their work environment, hence expressing a preference for high job security (Barricks, Mount and Li, 2013). There are also empirical studies supporting the link between personality and job characteristics preferences. Casper, Wayne and Manegold (2013) found that psychological characteristics (values and attitudes) are more predictive of job-pursuit intention than demographic characteristics (age, race, gender and education). This indicates that personal values are more predictive of job applicant's attraction to an organisation than demographic variables. This can be applied to the hypothetical relationship between personality and job characteristics as well, where individual differences in personality will also be predictive of job characteristics preference.

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Judge and Zapata (2015) compared and integrated two theoretical perspectives in explaining the effect of personality on job performance. They proposed that situational strengths and trait activation theory provide a description of the optimal situation where personality will have the greatest influence on job outcomes. Situational strength refers to the degree to which situational constraints are present in the work context. Jobs with clear instructions provide little room for improvisation and therefore present greater situational constraints, in turn limiting the expression of personality traits through relevant work behaviour. On the other hand, personality traits can be activated when job context permits certain trait-consistent behaviour. For example, a sales role provides more opportunities for social interaction than a clerical role, and therefore permits more social behaviours that are related to high extraversion.

Situational strength and trait activation will interact and contribute to the relationship between personality and job performance, through presence of specific job characteristics. This interactionist model was confirmed through a systematic review of 125 studies (Judge and Zapata, 2015). As expected, the relationship between the big-five personality traits and job performance were stronger when the job situation is unstructured, allows for freedom to make decisions and involves a variety of activities. With respect to trait activation, trait-specific job requirements mediated the relationship between each of the big-five personality traits and job performance. Individuals who scored high on conscientiousness had better job performance in jobs requiring high self-efficacy and independence. Individuals who are highly extraverted, agreeable and emotionally stable performed better in jobs role that are service-oriented and require frequent use of social skills. Finally, those who scored high on the openness scale were more suited to job roles that emphasise innovation and creativity. In short, there is strong evidence suggesting that individuals will perform better if they select situations that are consistent with their personality traits.

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From a practical perspective, linking personality and job characteristics provides a new perspective for understanding individual preferences and their influence on job attraction. Despite its demonstrated validity in predicting behaviours, attitudes and personal values, personality assessment has traditionally suffered from its weak correlation with job performance (Barrick, Mount & Li, 2013; Shorey, 2018). To improve the reliability and validity of personality assessments in attracting applicants to particular job contexts, personality will need to be related to tangible, job variables that are relevant to both job seekers and employers (Moyle & Hackston, 2018). Job characteristic preferences is one such variable, which has been related to job outcomes at various stages of the employment cycle. Although job choices are often influenced by practical constraints, such as salary and work location, personality can express its effects on job outcomes through influencing applicants' job choices. The next section of this review will present different types of job characteristics that have attracted the attention of research over the past decades, and their relationship with personality.

### **Job characteristics review**

#### **Task Characteristics**

Job simplification as an approach to job design in early 1900s has been heavily criticised as monotonous and demotivating. In response to this, Hackman and Oldham (1980) developed the Job Characteristics Model (JCM) that emphasised the importance of creating meaning and significances in job roles, which can lead to increased motivation and satisfaction of employee's needs and expectations. According to the JCM, in order for employees to feel motivated, the following **task characteristics** must be present in a job: 1) *task significance*, employees must understand the ways in which their job brings benefit to the relevant population; 2) *task identity*, employees will need to know how their job fits into a larger part of a project or function; 3) *skill variety*, there are opportunities for employees to



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use a variety of their skills and knowledge; 4) *feedback* is regularly provided to help employees understand their performance; and 5) employees must be given the *autonomy* to make work-related decisions (Hackman and Oldham, 1980). Hackman and Oldham (1980) argue that these characteristics enhance the meaningfulness and responsibility of employees' experience, thereby increasing their motivation to perform in a job role.

A meta-analysis conducted by Humphrey and colleagues (2007) replicated results from earlier studies and showed that elements of the JCM were positively and strongly correlated with job satisfaction, motivation and organisational commitment. Presence of all task characteristics were correlated significantly with high satisfaction with supervisor, co-workers, compensation, and promotion opportunities (Humphrey, Nahrgang, and Morgeson, 2007). Given the association between task characteristics and important job outcomes, job applicants may be more likely to pursue a job role in an organisation in which such characteristics are perceived to be present.

To investigate that relationship between personality and job characteristic preferences, recent research has examined the relationship between Big-Five personality and aspects of the JCM concluded that higher ratings on all JCM task characteristics were positively correlated with the big five factors; Conscientiousness, Openness and Extraversion (Rubenstein, Zhang, Ma, Morrison, & Jorgensen, 2019). Moreover, task characteristics were also found to mediate the relationship between two of the Big-Five traits (Openness and Conscientiousness) with job satisfaction. These results suggest that highly conscientious, open and extraverted individuals are more likely to perceive the presence of JCM task characteristics in their job. Moreover, those who are conscientious and open are more likely to feel satisfied about their job through the presence of these task characteristics.

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In addition to characteristics identified within the JCM, opportunities for advancement and training are highly relevant to modern job roles. Narrative analysis by Winder and Jackson (2016) suggests that young workers between the age of 18 to 29 attach high significances to career advancements and opportunities for training. Advancements and training opportunities also contributed to perceived attractiveness of an organisation and job pursuit intentions (Winder and Jackson, 2016). Interestingly, there is inconsistent evidence showing a gender difference in such preference but male employees generally express higher emphasis on advancement while female employees are more receptive to receiving training (Winder and Jackson, 2016).

### **Social Characteristics**

While the JCM focused on the characteristics of tasks within a job, an alternative job characteristics category was introduced through the classic Hawthorne study in organisational behaviour. The Hawthorne effect, derived from the name of the study, represents the influence that working in the presence of other people will have on performance, regardless of environmental conditions and task characteristics (Carnevale and Rios, 1995). The original study was conducted in a manufacturing environment and even though the effect was poorly replicated, it proliferated research on the social characteristics of the workplace (Chant, 1993). Social characteristics commonly investigated are relationships with colleagues and supervisor, support from inside and outside the work context, interdependence of job tasks, and the amount of interaction with external stakeholders.

There is considerable research documenting the positive effects of working in a socially rich and satisfying context. Opportunities for developing positive workplace relationships with colleagues and superiors has been frequently associated with an increase in perceived emotional and work support, which in turn boosts job satisfaction (Grant, Fried and Juillerat, 2011). Those who reported having a positive relationship in the workplace were also

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found to be less susceptible to poor psychological and physical well-being. Winter and Jackson (2016) suggest that individual's need for efficiency may underlie a preference for forming workplace relationships and working in groups for young workers. In comparison to task characteristics, Humphrey et al. (2007) concluded that presences of social characteristics accounts for more variance in turnover intentions, satisfaction with supervisor and colleagues, organisation commitment and job involvement. Therefore, perceived social characteristics of the workplace are likely to make a significant contribution to a job applicant's attraction for and intention to pursuit a job.

Preference for social characteristics is also associated with personality traits. Vandenberghe, St-Onge and Robineau (2008) found that highly extraverted and agreeable individuals expressed high preference for positive relationships with supervisors and colleagues in the workplace. Similarly, Extraversion and Agreeableness were also found to be positively correlated with preference for teamwork, collaboration and development of workplace relationships (Berings, Fruyt, Bouwen, 2004). Similarly, a meta-analysis by Rubenstein and colleagues (2019) demonstrated that preference for social characteristics in the workplace had a significant correlation with Agreeableness (.29), but there were only weak correlations with Extraversion (.19) and Neuroticism (-.20).

### **Organisational characteristics.**

Although the term "organisational reputation" is often used in the literature as a measure of organisational characteristic, there is little consensus in the definition and measurement of reputation. Jurgensen (1978) defined good reputation as being proud of being associated with the company. An alternative approach adopted by the human resources literature is to define reputation in terms of corporate social responsibilities (CSR). CSR refers to any discretionary action toward improving social welfare that serves as a means of enhancing relationships with key stakeholders (e.g. customers, employees, general

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community). Through implementing and promoting relevant policies, organisations can appeal to various stakeholders. For example, work-diversity policies are directed at raising awareness of an organisation's anti-discriminatory actions, while a policy of flexible working hours is intended to appeal to individuals with family responsibilities.

Companies with a positive reputation, however that is defined, are often associated with other positive characteristics as a potential employer. Based on reputation, job applicants can make judgements about their fit with the company and the likelihood that their work related needs can be satisfied (Breugh, 2008; Dogl and Holtbrugge, 2014). Vercic & Coric (2018) suggested that as the most valuable but intangible asset of an organisation, reputation is associated with reduced uncertainty about future organisational performance and contributes to public confidence and loyalty to the brand. In addition, reputation has a positive correlation with higher familiarity, suggesting more information will be available to job applicants to evaluate the organisation as a prospective employer. Social identity theory suggests that people self-identify with social groups that will enhance their personal identity (Rynes and Cable, 2003) and that people are more likely to join groups or organisations which they believe to have an image congruent to their identity. In support of this theory, research has concluded that job applicant's perceived image of an organisation is related to job attraction and pursuit intention (Chapman et al, 2005).

Kausel and Slaughter (2011) measured job applicants' perception of a company's reputation and its effects on job attraction, as moderated by the facets of the "big five". It was found that individuals who are low on trust (a facet of the Agreeableness trait) and imagination (a facet of the Openness trait) are more attracted to organisations which they perceive as more trustworthy and innovative respectively. Similarly, those who score high on assertiveness (a facet of the Extraversion trait) were more attracted to organisations that are

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less popular and active, presumably an optimal environment for highly assertive individuals to exert control.

An organisation's reputation as a determinant of job pursuit intentions is also based on perceptions of its policies. Individuals who endorse family, diversity and work values were found to be attracted to in companies that promotes human resource policies consistent with those values (Casper, Wayne & Manegold, 2013). These relationships were also found to be stronger than those predicted by gender, marital status and ethnicity. Despite a small sample size and weak effect sizes, Casper and colleagues (2013) provided some evidence that personal values are related to attraction to company policies and reputation.

Location of the organisation also appeared to be an important consideration for job seekers. With globalisation and convenience in communication technology, modern job roles frequently cross geographical boundaries and employees are often required to travel to different locations for work. With cities and urban areas expanding, the volume of transportation is also proportionally larger, which makes travel time to work an important consideration. However, there is currently no theory or research linking personality and preferences for work location. It is possible that work location consideration is non-compensatory, meaning job applicants will only further evaluate other job characteristics if the role is available in a practically feasible location.

### **Employment conditions**

Although salary and benefits are basic features of employment, their inclusion in job characteristic research has been inconsistent. This is mainly due to a shift in focus to research on non-monetary motivators in the modern workplace. There is evidence to suggest that task and social characteristics are stronger predictors of attraction and job pursuit intentions when compared with monetary variables (Chapman et al, 2005). However, some researchers have

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argued that salary and benefits are still fundamental conditions of employment and will have a unique impact of job applicants' attraction and job choice decision (Grant, Fried & Juillerat, 2011).

With respect to the influence of monetary benefits on job choices, Osborn (1990) makes a distinction between non-compensatory and compensatory approach to evaluating job characteristics. He theorised that with the non-compensatory approach, certain criteria must be met before job applicants would consider pursuing a job role. On the other hand, the compensatory approach suggests that different job characteristics can compensate for one another when considering the suitability of a job role. Based on their results, Chapman and colleagues (2005) suggested that both approaches may be used depending on what job characteristics are being considered. Their meta-analysis showed that salary and benefits both weakly correlated with job pursuit intentions but not with job attraction. This suggests that momentary factors may be more relevant at the earlier stages of recruitment, where applicants may decide to further research the job role based on the salary and benefits offered. Once the job applicant is satisfied with the paid and benefits, they will then consider other characteristics of the job role.

To further investigate preferences for salary and benefits, Vandenberghe, St-Onge and Robineau (2008) showed that individuals high on Extraversion and Openness expressed a preference for performance-based bonuses and high salary, while those who were more Conscientiousness and Agreeable preferred other forms of benefits (e.g. employee insurance schemes, pension plans and paid time off). However, all effect sizes were weak and only openness remained a significant predictor once the effects of age and gender were controlled. There was also no apparent explanation for these results and given that there are no further studies were conducted, their work on individual differences in preference for salary and benefits remain inconclusive.

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Other relevant employment conditions that are often considered by job seekers are employment tenure and working hours. Preferences for more stable tenures and flexible working hours are usually associated with family commitments and marital status. Individuals with higher a number of dependents and household labour expressed increased preference for short, flexible work hours and part-time or casual roles (Konrad, 2003). This effect was found to be more significant in women than men. In a separate study, it was found that increased family responsibilities negatively predicted weekly working hours and engagement in full-time work (Corrigall and Konrad, 2006). Taken together, family responsibilities predict both preferences for and actual working hours.

### **Physical characteristics**

In Jurgensen's study (1978), working conditions include characteristics related to the comfortableness of the working environment. These characteristics include temperature, odour, noise and cleanliness of the workspace. Research interest in the effects of working conditions on productivity and satisfaction has diminished due to a shift in focus to social and task characteristics of jobs. However, there is a recent resurgence in the topic's popularity due to its relationship with physical well-being and productivity. In addition to conditions of the working environment, human factor researchers have suggested that spaciousness and design of workspace also have an impact on well-being and productivity. According to the person-environment relations model (Carnevale & Rios, 1995), the quality of the workplace is evaluated based on the objective features of the environment. Environmental features may satisfy the user's needs directly by assisting completion of a task, or indirectly by providing an environment which is comfortable and suitable for the type of work.

Carnevale and Rios (1995) examined this proposition by analysing relationships between objective work conditions (such as lighting, temperature), perceived quality of the working environment and job satisfaction. Their results indicated that work conditions were

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moderately correlated with quality ratings of the environment and job satisfaction.

Workspaces with perceived level of optimal lightings, temperature, air quality and spaciousness were rated as a high-quality environment (Carnevale & Rios, 1995). More recently, Kim and Young (2014) investigated a similar set of working conditions (density, darkness, indoor environment and ergonomics) and their relationship with turnover intentions and physical well-being. Expanding upon earlier research, Kim and Young (2014) suggest that perceived comfortable and well-designed workspaces allow for a balance between social interaction and independent work. Open office layout with shared spaces creates more opportunities for social interaction and communication, whereas closed or partitioned office spaces can minimise distractions and stimulations. Their results suggest that working in an environment that is crowded and dark reduces perceived productivity and increases employee's perceived health problems and turnover intentions. In contrast, they found that air quality, temperature, noise level and ergonomically designed furniture enhance productivity and mitigate negative job outcomes. More importantly, they found that office characteristics significantly contributed to employees' perceived health problems after controlling for demographics and job satisfaction.

In terms of office design, open offices have been a popular trend in many businesses and industries, due to the assumed benefits that they bring. While typical office spaces have walls and partitions, open-office design adopts a space-sharing design with minimal walls that are assumed to facilitate communication and interaction between employees. This design also provides flexible work arrangements to accommodate for the increasing number of part-time and casual employees. From a cost-saving perspective, a greater number of employees can work together in a reduced amount of space, with minimal effort required in maintenance and building costs. However, it has been argued that the downside of this design outweighs its benefits. For example, there is evidence to suggest that open-offices are perceived to be



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noisy and crowded, leading to employees experiencing loss of privacy and productivity (Clearwater, 1979; Hundert & Greenfield, 1969). A survey on workspace satisfaction analysed responses from 42,764 employees from 303 different offices (66.9% were open-offices) and supported the claims made above (Kim & Dear, 2013). Although open-offices were rated high on air quality, lightings, cleanliness and ease of interaction, they also received negative ratings in terms of noise level, privacy and amount of space. With respect to individual differences in preference for open office, a study by Maher and Hippel (2005) showed that people with lower levels of concentration and inhibitory abilities reported lower job satisfaction in open offices, especially when they were asked to perform a more complex task. However, there are no study in the current literature to suggest a relationship between personality and preferences for open or private office designs.

### **Summary**

In summary, research have focused on investigating the effects of job characteristic and job outcomes but there are comparatively less that focused on preference for these characteristic and recruitment outcomes. Although there is some research to support the relationship between Big-Five personality traits and job characteristic preferences, the nature of this relationship remains inconclusive due to variations in methodologies. To address this gap, future research should focus on exploring the underpinnings of job characteristic preferences. This will bring better understanding towards job applicants' job choice and in turn inform best practices in recruitment.

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### **Abstract**

Understanding job applicants' preferences towards job characteristics can help companies focus on promoting and developing the important aspects of workplace, which in turn is linked to better job satisfaction and productivity. By advertising specific job and organisational characteristics, companies aim to recruit applicants who are attracted to such characteristics, hence achieving a fit between its employees and the organisation. Currently, there is a lack of research investigating the underpinnings of JCPs. The current study aims to explore JCPs amongst undergraduate students and clarify the relationship between personality factors and JCPs. 109 Psychology undergraduate students were asked to rate the importance of 23 job characteristics and completed a personality trait and facet measure. The results showed that students rated employment conditions (salary, benefits, tenure and working hours) as more important to other than to themselves. There were also differences in perception with regards to the importance of task, social and organisational characteristics. It was also found that Extraversion, Openness and Conscientiousness were significant predictors of JCPs, and personality facets accounted for more variance in JCP than Big-Five personality traits. These findings have implications for company recruiters and human resource practitioner in areas of recruitment, selection and development, and provide insight into the use of personality assessment in these areas.

**Keywords:** Job characteristic preferences, Big-Five personality, job design, human resource, recruitment

**Declaration**

This report contains no material which has been accepted for the award of any other degree or diploma in any University, and, to the best of my knowledge, this report contains no materials previously published except where due reference is made.

I give permission for the digital version of my thesis to be made available on the web, via the University's digital research repository, the Library Search and also through web search engines, unless permission has been granted by the School to restrict access for a period of time

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October, 2019

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## **Introduction**

Basic principles of human resource management (HRM) support that attracting talents with specific skills and demographics through targeted recruitment can boast competitive advantage for organisations. By advertising specific job characteristics, companies aim to recruit applicants who are attracted to such characteristics, hence achieving a fit between its employees and the organisation (Sekiguchi & Huber, 2011). By presenting a set of job and organisational characteristics that attracts talents with specific skills, needs and preferences, companies hope to achieve an improved fit between its employees and the organisation.

Research in organisational psychology has long supported the theory of person-organisational fit (P-O fit) and person-job fit (P-J fit) as well as the benefits these bring to performance and job satisfaction (Lin, Yu & Yi, 2014; Saks & Ashforth, 1997). From a business perspective, recruiting talents that share company values allows them to perform in ways that aligns with organisational image and goals.

A meta-analysis by Uggersley and colleagues (2012) summarised results from 232 studies and reported that job characteristics (e.g. salary, benefits, promotion opportunities, challenges, company reputation, job security, relationship with co-workers/supervisor) significantly predicted job attraction and job pursuit decision. These results suggested that applicants' perceived fit with an organisation is based on their preference for, and evaluation of relevant job characteristics, which affects job applicant's attraction and decision to pursuit a career in that organisation. Therefore, understanding preferences for job characteristics, also called job characteristic preferences (JCPs) allows recruitment and selection strategy to be tailored and potentially improves person and job outcomes.

### **1.1. Early research in job characteristic preferences**

Jurgensen (1978) was the first to examine preferences for job characteristics in recruitment practice. His study focused on examining JCPs amongst 56,621 job applicants of



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the Minnesota Gas Company between 1945 and 1975. Using a self-developed job preference form, job applicants were asked to rank the importance of ten job characteristics for themselves and for the general population. Job characteristics examined included: advancement opportunities, benefits, company reputation, relationship with co-workers, reasonable working hours, salary, job security, consider and fair supervisor, type of work and working conditions (Jurgensen, 1978).

Jurgensen (1978) concluded that over the 30-year period, there was a small increase in the importance of type of work, benefits and pay, and a decrease in preference for advancement and job security. There were also small differences in preference with respect to age and gender (Jurgensen, 1978). Compared to their older counterparts, men under the age of 20 attached more importance to relationship with co-workers and supervisor, working hours, salary, and working conditions, but they ranked advancement opportunities, benefits and job security lower. Rankings amongst women remain consistent across different age groups, with an emphasis on the type of work performed. In contrast, men attached higher importance to job security and company reputation compared to women. When comparing rankings for self and for the general population, both men and women consistently predicted salary as more important for other people, and relationship with co-workers to be less important. Jurgensen (1978) proposed that a misconception of money being the primary motivator for work underlie this perception that above average salary is an important job characteristic for others but not for oneself. As a result, company recruiters tend to focus on offering attractive remuneration packages to attract and retain talents. However, this will not always match job applicants' expectations and needs as there are other job characteristics to be considered.

Posner (1981) expanded upon Jurgensen's study and compared JCPs amongst students and company recruiters. It was found that undergraduate students placed higher

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significance on opportunities to learn and use abilities, as well as performing interesting work. However, students did not express preferences for type of work and pay. On the other hand, recruiters' expectations were found to be reflective of students' most important preferences, but they also expected students to place lower significances on autonomy and job security. A misalignment between students' and recruiters' expectations can lead to misunderstandings in the job, therefore reducing job satisfaction and productivity (Posner, 1981). Furthermore, Harris and Fink (1987) reported that job applicants' perception of the job role, salary and benefits, work environment and company reputation were all important factors for consideration when applying for a job. Taken together, individual differences in JCPs influence attraction and job pursuit intentions and therefore can be applied to recruitment and selection practices (Breugh, 2008; Sekiguchi & Huber, 2011). However, but there is limited understanding of the nature of the individual differences of JCPs and its correlation with other predictors. In order to address this gap, the current study aims to explore preferences for job characteristics in modern job context and investigating the relationship between JCPs and personality. The theoretical link between personality and JCPs will be outlined in the next section.

### **1.2. Job characteristic preferences and personality**

Integrating theories of personality and job characteristics, Barricks, Mount and Li (2013) argued personality traits guide the formation of implicit goals which vary across individuals. Under the assumption that work behaviour are purposeful in fulfilling these implicit goals, individuals are predisposed to express preferences for certain job characteristics that are consistent with his/her personality and associated goals. Self-verification theory and selective interaction hypothesis (Heider, 1958; Swann, 1983) provided support for this view and suggested that people confirm self-concepts through expressing preferences for, and selection of life experiences, and therefore are motivated to

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seek out situations that provide self-verifying feedback. For example, individuals with higher scores on Neuroticism may actively seek consistency and predictability in their work environment, hence expressing a preference for high job security (Barricks, Mount and Li, 2013). Research on different categories of job characteristics and their relationship with personality will be summarised in the following section.

### **1.2.1. Task characteristics.**

Approach to job simplification in early 1800s were criticised as monotonous and demotivating, since it neglected employees' expectations and needs. In contrast, Hackman and Oldham (1980) have developed a Job Characteristics Model (JCM) that emphasised the importance of creating meaning and significances in job roles, resulting in higher employee motivation. The JCM proposed that for jobs to be meaningful and significant, there must be task significance, task identity, skill variety, feedback and autonomy. A meta-analysis conducted by Humphrey and colleagues (2007) replicated results from earlier studies and showed that the JCM were positively and strongly correlated with job satisfaction, motivation and organisational commitment. More specifically, presences of all task characteristics were significantly correlated with high satisfaction with supervisor, co-workers, compensation, and promotion opportunities (Humphrey, Nahrgang, and Morgeson, 2007).

A recent meta-analysis by Rubenstein and colleague (2019) examined the relationship between Big-Five personality and perceived presence of JCM task characteristic in workplace. It was concluded that perceived presence of task characteristics was positively correlated with Conscientiousness, Openness and Extraversion (Rubenstein, Zhang, Ma, Morrison, and Jorgensen, 2019). Moreover, perceived task characteristics were also found to mediate the relationship between two of the Big-Five traits (Openness and Conscientiousness) with job satisfaction. This suggests that highly Conscientious, Opened and Extraverted individuals are more likely to perceive a presence of task characteristics in

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their job. Moreover, those who are Conscientious and Opened are more likely to feel satisfied about their job through the presence of task characteristics. However, there is no research in linking personality and preference for task characteristics.

### **1.2.2. Social characteristics.**

There is considerable research documenting the positive effects of working in a socially rich and satisfying context. Opportunities for developing positive workplace relationship with colleagues and superior had been frequently associated with an increase in perceived emotional and work support, which in turn boost job satisfaction (Grant, Fried and Juillerat, 2011). Those who reported having a positive relationship with colleagues and superior were also found to be less susceptible to poor psychological and physical well-being (Grant, Fried, and Juillerat, 2011). For young workers, a need for efficiency may underlie their preferences for forming workplace relationships and working in groups, but no studies have examined this yet (Winter and Jackson, 2016). In comparison to task characteristics, Humphrey et al. (2007) concluded that presence of social characteristics in a workplace account for more variances in turnover intention, satisfaction with supervisor and colleagues, organisation commitment and job involvement. Therefore, social characteristics are likely to have a unique contribution to job applicant's attraction and job pursuit attention.

Preference for social characteristics had been associated with personality traits in several studies. Vandenberghe, St-Onge and Robineau (2008) found that highly extraverted and agreeable individuals expressed high preference for positive relationship with supervisors and colleagues at workplace. Given that extroverted people are more socially outgoing and friendly in general, while agreeable individuals are likely to be group-oriented and conflict-avoidant, hence explaining these results. Similarly, Extraversion and Agreeableness were also found to be positively correlated with preference for teamwork, collaboration and development of workplace relationship (Berings, Fruyt, Bouwen, 2004). Meta-analysis by

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Rubenstein and colleagues (2019) report similar results where preference for social characteristics at workplace had a moderate correlation with Agreeableness (.29) and weak correlation with Extraversion (.19) and Neuroticism (-.20).

### **1.2.3. Organisational characteristics.**

Although the term “organisational reputation” is often used in the literature as a measure of organisational characteristic, there is little consensus in the definition and measurement of reputation. Jurgensen (1978) defined good reputation as being proud of being associated with the company. An alternative approach is to define reputation in terms of corporate social responsibilities (CSR). CSR refers to any discretionary action toward improving social welfare that serves as a means of enhancing relationships with key stakeholders (e.g. customers, employees, general community). Through implementing and promoting relevant policies, organisations can appeal to various stakeholders. For example, work-diversity policies are directed at raising awareness of an organisation’s anti-discriminatory actions, while a policy of flexible working hours is intended to appeal to individuals with family responsibilities. Companies with a positive reputation, measured as high CSR, are often associated with other positive characteristics as a potential employer. Therefore, by evaluating companies based on the policies implemented, job applicants can make a judgement about their fit with the company and the likelihood that their work-related needs can be satisfied (Dogl and Holtbrugge, 2014).

Kausel and Slaughter (2011) measured job applicant’s perception of a company’s reputation and its effects on job attraction, as moderated by personality facets. It was found that individuals who are low on trust (a facet of the Agreeableness trait) and imagination (a facet of the Openness trait) are more attracted to organisations which they perceived as more trustworthy and innovative respectively. Similarly, those who score high on assertiveness (a

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facet of the Extraversion trait) were more attracted to organisations that are less popular and active, presumably an optimal environment for highly assertive individuals to exert control.

Location of the organisation also appeared to be an important consideration for job seekers. Globalisation and advance in communication technology enabled jobs to cross geographical boundaries and employees are often required to travel to national or international location for work. With cities and urban areas expanding, the volume of transportation is also proportionally larger, which makes travel time to work an important consideration. However, there are current no research in linking personality and preferences for work location.

### **1.2.4. Employment conditions.**

Salary and benefits are basic features of employment, but some argues that task and social characteristics are stronger predictors of job attraction and job pursuit intention when compared with monetary variables (Chapman et al, 2005). With respect to the influence of monetary benefits on job choices, Osborn (1990) had make a distinction between non-compensatory and compensatory approach to evaluating job characteristics. He theorised that with the non-compensatory approach, certain criteria must be met before job applicants would consider pursuing a job role. On the other hand, compensatory approach suggests that different job characteristics can compensate for one another when considering the suitability of a job role. Based on their results, Chapman and colleagues (2005) suggested that both approaches may be used depending on which job characteristics are being considered. Their meta-analysis showed that salary and benefits both weakly correlated with job pursuit intention but not to job attraction. This suggests that momentary factors may be more relevant at the earlier stages of recruitment, where only when job applicants are satisfied with the remuneration, then they will consider other job characteristics.

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To further investigate preferences for salary and benefits, Vandenberghe, St-Onge and Robineau (2008) showed that Extraverted and Opened individuals expressed a preference for performance-based bonuses and high salary, while those who were more Conscientiousness and Agreeable preferred other forms of benefits (e.g. employee insurance schemes, pension plans and paid time off). However, all effect sizes were weak and only Openness remained a significant predictor once the effects of age and gender were controlled. Given that there was no apparent explanation for these results and no further studies conducted, relationships between personality and preference for salary and benefits remain inconclusive.

Other relevant employment conditions that are often considered by job seekers are employment tenues and working hours. Preferences for stable tenues and flexible working hours are commonly associated with family commitments and marital status, but not with personality traits. Individuals with higher number of independent and household labour expressed increased preference for short, flexible work hours and part-time or causal roles (Konrad, 2003). This effect was found to be more significant in women than men. In a separate study, it was found that increased family responsibilities negatively predicted weekly working hours and engagement in full-time work (Corrigall and Konrad, 2006). Yet, relationship between personality and preferences for tenue and working hours are not explored in the literature.

### **1.2.5. Physical characteristics.**

Physical characteristics relate to the conditions of the working environment, including lighting, temperature, odour, noise and cleanliness of workspace. Human factor researchers also suggested that spaciousness and design of workspace also have an impact on well-being and productivity (Kim & Dear, 2013). According to the person-environment relations model, people evaluate the quality of workplace based on the objective features of the environment (Carnevale & Rios, 1995). Environmental features may satisfy the user's needs directly by

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assisting completion of a task, or indirectly by providing an environment which is comfortable and suitable for the type of work (Oldham & Rotchford, 1983).

Carnevale and Rios (1995) examined this proposition by analysing relationships between objective work conditions (such as lighting, temperature), perceived quality of the working environment and job satisfaction. Their results indicated that work conditions were moderately correlated with quality ratings of the environment and job satisfaction. Workspaces with perceived level of optimal lightings, temperature, air quality and spaciousness were rated as a high-quality environment (Carnevale & Rios, 1995). More recently, Kim and Young (2014) investigated a similar set of working conditions (density, darkness, indoor environment and ergonomics) and their relationship with turnover intentions and physical well-being. Expanding upon earlier research, Kim and Young (2014) suggested that perceived comfortable and well-designed workspaces allow for a balance between social interaction and productivity. Open office layout with shared spaces creates more opportunities for social interaction and communication, whereas closed or partitioned office spaces can minimise distractions and stimulations. Hence, several researchers (Oldham & Brass, 1979; Oldham & Fried, 1987; Vischer, 2008) suggested that preference for physical characteristics and office design are related to individual cognitive ability and preferred work style. However, no research has related personality with preference for physical characteristic of the workplace.

### **1.3. The Present Study**

Reviewing of literature on JCP revealed that there is a need to investigate preferences in modern job context. As suggested by Jurgenson's study (1978), there are differences in JCPs for oneself and others. Hence the first aim of the present study is to explore JCP for self and others amongst undergraduate students. With regards to personality and JCPs, there is evidence to suggest preferences for social characteristics are related to positively to



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Extraversion and Agreeableness, and negatively to Neuroticism. However, no previous study has explored the relationship between personality and preference for task characteristics, organisational, employment conditions and physical characteristics, hence no hypothesis were proposed related to these job characteristics. Furthermore, the application of JCPs research is limited without understanding the personality underpinnings of JCPs. To address these gaps, this study aims to explore JCPs amongst undergraduate students and clarify the relationship between Big-Five personality (trait and facets) and JCPs. Aims and hypothesis are listed below.

**Aim 1:** Explore job characteristic preferences for self and others amongst undergraduates

**Hypothesis 1:** Preferences for above average salary will be rated as higher for others than for self, regardless of gender.

**Aim 2:** Explore and clarify the relationship between Big-Five personality (trait and facets) and job characteristic preferences

**Hypothesis 2a:** Social characteristics will be positively and significantly related to Extraversion and Agreeableness.

**Hypothesis 2b:** Social characteristics will be negatively and significantly related to Neuroticism.

## **Method**

### **2.1. Participants**

Student participants were recruited from the Bachelor of Psychological Science and Honours Degree of Bachelor of Psychology (Advanced) at the University of Adelaide. Recruitment posters (appendix G) were posted around study areas at the North Terrace campus and online on a Facebook group for University of Adelaide Psychology students. The poster was also posted online through the Research Participation System (RPS) of the University of Adelaide to recruit Year 1 students enrolled in *Psychology 1A* and *Psychology 1B* course. Students participated through the RPS will be awarded 0.5 course credit (equivalent to 5% of their overall grade) upon completion of the survey. The poster provided background information on the study and a link for students to access the survey on [surveymonkey.com](https://www.surveymonkey.com). All participants were informed that participation was voluntary, that they could withdraw from the study at any time, and all information they provided were confidential. As an incentive to participate, a brief personality profile was offered to all participants who wished to receive it.

### **2.2. Materials and Measures**

#### **2.2.1. Demographic characteristics.**

For statistical control purposes, participants were asked to indicate their age, gender, year level, marital status and the number of jobs they previously had. Year 1 psychology students participating through the RPS were also asked to provide their RPS identification number. No other personal information was collected.

#### **2.2.2. Job Characteristic Preferences (JCPs).**

Based on the list by Jurgenson (1978), further research was conducted to identify job characteristics that closely represents modern job climates. JCPs items were sourced from

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studies reviewed in section 1.2.1 to 1.2.5. Items were presented in five categories according to their thematic similarities. The categories are 1) task characteristics, 2) social characteristics, 3) organisational characteristics, 4) employment conditions and 5) physical characteristics. Participants were asked to rate the importance of each item related to themselves and others on a seven-point scale, ranging from not important at all (1) to extremely important (7). See table 1 for a summary list of JCPs items. All job characteristic will be referred to using their abbreviation for the remaining of this report.

Table 1.

### *Summary list of job characteristic preference items*

<b>Category</b>	<b>Item</b>	<b>Abbreviation</b>
Task characteristics	1. Performing intellectually challenging and interesting work (e.g. require you to solve complex problems)	Interest
	2. Opportunities for promotion/advancement	Promotion
	3. Opportunities to use a number of different abilities and skills	Ability
	4. Opportunities for training and development	Training
	5. Opportunities to perform a wide variety of activities	Variety
	6. Have autonomy in making work-related decisions	Autonomy
Social characteristics	7. Co-workers/colleagues are competent and sociable	Colleague
	8. Have a positive relationship with superior and managers	Manager
	9. Have frequent interaction with external stakeholders (e.g. clients and suppliers)	Interact
Organisational characteristics	10. The company/organisation promotes workforce diversity policies	Diversity
	11. The company/organisation promotes work-life balance policies	WL balance
	12. The company/organisation promotes workplace safety policies	Safety
	13. The company/organisation promotes anti-bullying and discrimination policies	Bully
	14. The company/organisation promotes environment protection and waste reduction policies	Environment
	15. The company/organisation is in a desirable geographic location (e.g. close to home, family or friends)	Location
Employment conditions	16. Above average starting salary	Salary
	17. Fringe benefits (e.g. paid time off, health and life insurance, housing allowance, entertainment allowance, retirement plan contributions)	Benefit

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	18. Secure employment tenure (prefer long-term contracts over temporary, short-term contracts)	Tenure
	19. Flexible working hours	Hour
	20. Comfortable working conditions (e.g. lights, noise level, temperature, air quality, cleanliness)	Condition
Physical characteristics	21. Ergonomically designed workspace (e.g. adjustable chairs and tables, sufficient distance from computer screen)	Ergonomics
	22. Open office with sharing workspace	Open
	23. Have a private workspace/office	Private

### ***Task characteristics.***

Expanding upon Jurgensen's study, task characteristics identified in the Job Characteristics Model (JCM) by Hackman and Oldham (1980) were included. However, the JCM inventory is designed to assess employee's perception of job characteristics in their current work role, rather than preference for job characteristics. Hence items measuring the relevant job characteristics were adopted from previous studies, which provides an overall measure of preferences for performing interesting and meaningful work, as well as exercising autonomy at work. Preferences for promotions and training were also suggested to be relevant (Carless & Imber, 2007; Humphrey, Nahrgang and Morgeson, 2007) and were also included.

### ***Social characteristics.***

A review of literature supports that preference for three social characteristics were frequently assessed. These are preference in having competent and sociable colleagues (Carless & Imber, 2007), having positive relationship with superior/managers (Vandenberghe et al., 2008), and having frequent social interactions with external stakeholders (Morgeson & Humphrey, 2006). Emotional and social support from outside of work were not included since it is more relevant to characteristic of current job role rather than preferences.

### ***Organisational characteristics.***

Instead of using one general item to measure preference for working in a company with high reputation, items measuring corporate social responsibilities (CSR) were used for

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this category. Specifically, items measured participant's preference to five different organisation policies which has been showed to be a quantifiable representation of a company's reputation and image (Dahlsrud, 2008). Preference for location of the organisation is also included as it is identified to be relevant in the modern work context.

### *Employment conditions.*

All items from Jurgensen's (1978) study were retained but reworded to better reflect more recent research by Vandenberghe and colleagues (2008). New items assessed participant's preferences for above average salary, fringe benefits, secure employment tenure and flexible working hours.

### *Physical characteristic.*

In addition to assessing preferences for comfortable working conditions, ergonomically designed workspace was found to be relevant to modern workplace and hence was included in the category. Also, preferences for open workspace or private office were also included.

Table 2.

*Big-Five Personality trait and facets (Costa & McCrae, 1992)*

<b>Trait</b>	<b>Facet</b>	
<b>Openness</b>	O1: Imagination	O4: Adventurousness
	O2: Artistic Interests	O5: Intellect
	O3: Emotionality	O6: Liberalism
<b>Conscientiousness</b>	C1: Self-efficacy	C4: Achievement-striving
	C2: Orderliness	C5: Self-discipline
	C3: Dutifulness	C6: Cautiousness
<b>Extraversion</b>	E1: Friendliness	E4: Activity level
	E2: Gregariousness	E5: Excitement-seeking
	E3: Assertiveness	E6: Cheerfulness
<b>Agreeableness</b>	A1: Trust	A4: Cooperation
	A2: Morality	A5: Modesty
	A3: Altruism	A6: Sympathy

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<b>Neuroticism</b>	N1: Anxiety	N4: Self-consciousness
	N2: Anger	N5: Immoderation
	N3: Depression	N6: Vulnerability

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### 2.2.3. Personality.

The International Personality Item Pool NEO-120 (IPIP-NEO-120; Johnson, 2014) was used to measure Big-Five Personality and the underlying 30 narrower facets (see table 2). This inventory is a validated substitute for the NEO Personality Inventory Revised (NEO PI-R; Costa & McCrae, 1992). The IPIP-NEO-120 consists of 120 items, with four items for each of the 30 facets of the FFM, and 24 items for each factor. Each item is a statement describing people's behaviour and participants were asked to rate the extent to which each statement describes them on five-point Likert scale ranging from 1 (Strongly disagree) to 5 (Strongly agree).

### 2.3. Procedure

The study was conducted through the online survey website Survey Monkey. Information about the study and consent were presented in the first section of the online survey. After informed consent was obtained, the questionnaires were administered (demographic questions, JCPs and IPIP-NEO). The survey was available online for 11 weeks, from 27<sup>th</sup> May 2019 to 5<sup>th</sup> August 2019. Questions were administered in short-segments to motivate participant's retention, and the estimated completion time was 20 minutes. No personal information was collected during the study. Participants were offered a choice to provide their email address if they would like to receive a brief account of their personality profile. This study was approved by the Human Research Ethics Subcommittee of the School of Psychology at the University of Adelaide (Code Number: 19/62)

## Results

### 3.1. Data screening

Data were analysed using the statistical package R (v1.1.453) with R Studio for Mac (R Core Team, 2019). Prior to data analysis, all participant responses were deidentified and screened for missing answers and integrity. A total of 113 respondents participated in the study; however, four participants were removed due to either incomplete or ingenuine responses (selecting all the same responses). Therefore, 109 responses were included in the data analysis phase. A priori power analysis was conducted using G\*Power 3.1.92. The results indicated that a sample size of  $N = 97$  was necessary to achieve a power level of 0.80 when adopting a significance criterion of  $\alpha = 0.05$ , measuring small effect sizes (minimum  $r = 0.25$ ). Therefore, the study had sufficient statistical power for the primary analysis.

### 3.2. Participant demographics

As shown in table 3, the sample is heavily skewed in age, gender, year level and relationship status. Majority of the participants were between 18 to 24 years old, female, year 1 psychology student and single (never married). Hence, only previous number of jobs were used as grouping variable when comparing job characteristic preferences (JCPs). Goodness of fit test returned insignificant ( $\chi^2 = 7.65, p = 0.11$ ), suggesting that the number of previous jobs reported by participant were evenly distributed across the five categories. Therefore, ANOVA on all JCPs using number of jobs as grouping variable were conducted. Results of one-way ANOVA revealed no significant differences in preference between each group, suggesting previous job experience have no impact on JCPs in the current sample. Regardless of the number of jobs participant had previously, they express no differences in their JCPs.

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Table 3.

*Participant demographics (N = 109)*

<b>Age</b>	<b>Counts (percentage)</b>
Under 18 years old	4 (3.67)
18-24 years old	87 (79.82)
25-34 years old	11 (10.09)
35-44 years old	7 (6.42)
<b>Year level</b>	
Year 1	80 (73.39)
Year 2	14 (12.84)
Year 3	5 (4.59)
Honours	10 (9.17)
<b>Gender</b>	
Female	84 (77.06)
Male	25 (22.94)
<b>Relationship status</b>	
Single (never married)	82 (75.23)
In a domestic partnership	17 (15.60)
Married	5 (4.59)
Prefer not to say	5 (4.59)
<b>Number of previous jobs</b>	
0	13 (11.93)
1	22 (20.18)
2	20 (18.35)
3	23 (21.10)
4+	31 (28.44)



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### 3.3. IPIP descriptive statistics

Table 4.

*Descriptive statistics of personality traits and facets. (N = 109)*

	Mean (SD)	Min – Max (Range)	Skew
<b>Openness</b>	3.48 (0.47)	2.33 – 4.63 (2.30)	0.15
O1: Imagination	3.89 (0.81)	2.00 – 5.00 (3.00)	-0.20
O2: Artistic Interests	3.67 (0.85)	1.50 – 5.00 (3.50)	-0.19
O3: Emotionality	3.52 (0.89)	1.00 – 5.00 (4.00)	-0.30
O4: Adventurousness	3.03 (0.82)	1.00 – 5.00 (4.00)	0.39
O5: Intellect	3.78 (0.90)	1.75 – 5.00 (3.25)	-0.33
O6: Liberalism	3.01 (0.59)	1.75 – 4.75 (3.00)	0.27
<b>Conscientiousness</b>	3.59 (0.48)	2.50 – 4.79 (2.29)	0.01
C1: Self-efficacy	3.82 (0.56)	2.50 – 5.00 (2.50)	-0.07
C2: Orderliness	3.40 (0.90)	1.50 – 5.00 (3.50)	0.03
C3: Dutifulness	4.14 (0.59)	2.25 – 5.00 (2.75)	-0.53
C4: Achievement-striving	3.94 (0.69)	2.00 – 5.00 (3.00)	-0.47
C5: Self-discipline	2.91 (0.61)	1.50 – 4.25 (2.75)	0.17
C6: Cautiousness	3.32 (1.00)	1.25 – 5.00 (3.75)	-0.18
<b>Extraversion</b>	3.34 (0.55)	1.50 – 4.63 (3.13)	-0.39
E1: Friendliness	3.64 (0.80)	1.50 – 5.00 (3.50)	-0.26
E2: Gregariousness	2.92 (0.96)	1.00 – 5.00 (4.00)	0.04
E3: Assertiveness	3.29 (0.72)	1.75 – 5.00 (3.25)	-0.02
E4: Activity level	3.28 (0.86)	1.25 – 5.00 (3.75)	-0.01
E5: Excitement-seeking	3.61 (0.81)	1.00 – 5.00 (4.00)	-0.49
E6: Cheerfulness	3.86 (0.69)	1.50 – 5.00 (3.50)	-0.60
<b>Agreeableness</b>	3.76 (0.48)	2.54 – 4.83 (2.29)	-0.29
A1: Trust	3.37 (0.78)	1.50 – 5.00 (3.50)	-0.22
A2: Morality	3.71 (0.78)	1.50 – 5.00 (3.50)	-0.41
A3: Altruism	4.20 (0.64)	1.75 – 5.00 (3.25)	-0.87
A4: Cooperation	4.02 (0.83)	1.25 – 5.00 (3.75)	-0.96
A5: Modesty	3.40 (0.84)	1.50 – 5.00 (3.50)	0.07
A6: Sympathy	3.86 (0.78)	1.00 – 5.00 (4.00)	-0.72
<b>Neuroticism</b>	2.80 (0.63)	1.25 – 4.33 (3.08)	-0.17
N1: Anxiety	3.34 (0.96)	1.00 – 5.00 (4.00)	-0.36
N2: Anger	2.59 (0.96)	1.00 – 5.00 (4.00)	0.17
N3: Depression	2.66 (1.00)	1.00 – 5.00 (4.00)	0.14
N4: Self-consciousness	2.78 (0.78)	1.25 – 4.50 (3.25)	0.10
N5: Immoderation	2.97 (0.84)	1.00 – 5.00 (4.00)	-0.10
N6: Vulnerability	2.49 (0.77)	1.00 – 4.75 (3.75)	0.37

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Descriptive statistics for personality traits and facets are presented in table 4.

Skewness greater than -0.5 suggests that psychology students exhibit slightly higher level of dutifulness (C3), achievement-striving (C4), excitement-seeking (E5), cheerfulness (E6), altruism (A3), cooperation (A4) and sympathy (A6). It is possible that psychology students exhibit a unique pattern of personality facets, meaning further interpretation should consider the influence of these patterns.

### **3.4. Aim 1: Explore job characteristic preferences for self and others amongst undergraduates**

Descriptive statistics of all 23 JCPs rating for self and others are summarised in table 5. All JCPs ratings were negatively skewed, suggesting many participants have rated most job characteristic as highly important on multiple occasions. Paired sample T-test were conducted to compare rated preferences for self and others for all 23 job characteristics.

T-test results shown in table 5 suggests small to moderate differences in 10 JCPs. The most notable discrepancy was observed with relation to employment conditions. Above average salary, benefits, stable tenure and flexible working hours were all perceived to be more important to others than to self. The effect size for salary, benefits and tenure were moderate; while differences in preferences for flexible hours is comparatively smaller. Since no demographic differences were tested, hypothesis 1 is partially supported. A similar pattern is observed in preferences for ergonomically designed workplace and open office set up, where preferences for these job characteristics were rated as more important for others in the general population. On the other hand, participant rated being able to do interesting work and having positive relationship with managers/superior as more important to themselves compared to other people. However, the effect sizes were small. Anti-workplace bullying and environmental protection policies were also rated as more important to self than others, with a moderate effect size.

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Table 5.

*Descriptive statistics for job characteristic preferences (self and others) and Paired sample t-test results. (N = 109)*

	Self		Other		Paired sample T-test results	
	Mean (SD)	Skew	Mean (SD)	Skew	t-value	d [95%CI]
<b>Task characteristics</b>						
Interest	5.31 (1.40)	-0.70	4.89 (1.51)	-0.29	2.88*	0.28 [0.13, 0.71]
Promotion	5.71 (1.26)	-0.83	5.98 (1.12)	-1.09	-1.85	0.18 [-0.55, 0.02]
Ability	5.61 (1.25)	-0.56	5.37 (1.30)	-0.72	1.62	0.16 [-0.05, 0.53]
Training	5.84 (1.27)	-0.89	5.68 (1.22)	-0.72	1.02	0.10 [-0.15, 0.46]
Variety	5.38 (1.32)	-0.52	5.31 (1.30)	-0.41	0.42	0.04 [-0.24, 0.37]
Autonomy	5.42 (1.23)	-0.57	5.28 (1.33)	-0.58	1.08	0.10 [-0.12, 0.42]
<b>Social characteristics</b>						
Colleagues	5.87 (1.13)	-0.97	6.05 (0.95)	-0.67	-1.55	0.15 [-0.40, 0.05]
Manager	6.19 (1.04)	-1.22	5.90 (1.07)	-0.79	2.36*	0.23 [0.05, 0.54]
Interact	4.39 (1.55)	-0.22	4.56 (1.43)	-0.20	-0.99	0.10 [-0.50, 0.17]
<b>Organisational characteristics</b>						
Diversity policy	5.43 (1.52)	-0.96	5.43 (1.48)	-0.66	0	0
Work-life balance	6.03 (1.06)	-1.22	6.07 (0.97)	-0.69	-0.40	0.04 [-0.27, 0.18]
Safety policy	5.89 (1.30)	-1.45	5.76 (1.26)	-1.00	1.11	0.11 [-0.10, 0.36]
Anti-bullying policy	5.96 (1.28)	-1.23	5.45 (1.51)	-0.81	4.00**	0.38 [0.26, 0.76]
Environment protection	5.47 (1.46)	-0.87	4.83 (1.74)	-0.33	4.17**	0.40 [0.34, 0.95]
Location	5.44 (1.31)	-0.67	5.62 (1.15)	-0.40	-1.29	0.12 [-0.44, 0.09]
<b>Employment condition</b>						
Salary	5.11 (1.39)	-0.56	5.74 (1.20)	-0.62	-4.28**	-0.41 [-0.93, -0.34]
Benefit	5.47 (1.33)	-0.98	5.95 (1.19)	-1.16	-3.53**	-0.34 [-0.73, -0.21]
Tenure	5.35 (1.47)	-0.71	6.00 (1.24)	-1.29	-4.82**	-0.46 [-0.91, -0.38]
Hours	5.57 (1.31)	-0.92	5.96 (1.04)	-0.82	-2.98**	-0.29 [-0.64, -0.13]
<b>Physical characteristics</b>						
Condition	5.90 (0.98)	-0.68	5.83 (1.15)	-0.72	0.67	0.07 [-0.14, 0.29]
Ergonomics	4.95 (1.54)	-0.63	5.28 (1.49)	-0.74	-2.40*	-0.23 [-0.62, -0.06]
Open office	3.95 (1.60)	-0.41	4.43 (1.46)	-0.37	-3.98**	-0.38 [-0.72, -0.42]
Private office	4.47 (1.74)	-0.40	4.92 (1.55)	-0.62	-2.50	-0.24 [-0.81, -0.09]

Note. \*  $p < 0.05$ ; \*\*  $p < 0.001$

### **3.5. Aim 2: Explore and clarify the relationship between personality traits and facets, and job characteristics preferences**

With respect to hypothesis 2a and b, Preference for sociable and competent colleagues was significantly and positively correlated with Conscientiousness ( $r = 0.20, p < 0.05$ ), Extraversion ( $r = 0.20, p < 0.05$ ) and Agreeableness ( $r = 0.21, p < 0.05$ ). Only Extraversion was significantly correlated with preference for manager ( $r = 0.30, p < 0.01$ ) and interaction ( $r = 0.29, p < 0.01$ ). Therefore, hypothesis 2a is partially support and hypothesis 2b is rejected. See appendix D for correlation matrix of all personality facets and JCPs and appendix E for correlation matrix of all personality traits and JCPs.

To further examine the correlation between Big-Five personality and JCPs, personality traits and facets that are significantly correlated with JCP are selected for multiple linear regression. Five job characteristics did not have correlation with any personality traits or facets and hence were removed from the analysis. These characteristics were, training, anti-bullying policy, location, condition and ergonomics. Regression analysis were conducted using a two-stage approach to compare the predictivity of personality traits and facets. Each of the remaining 18 characteristics were first regressed against all big five personality traits using a stepwise regression method. Both backward and forward regression were used to determine the best fitting model. The process was repeated for personality facets that showed significant correlation with JCPs. All regression models that yielded the highest  $R^2$  statistics are summarised in table 6.

In all regression models, personality facets accounted for more variance in JCPs than personality traits, except in preference for competent and sociable colleagues. However, differences in  $R^2$  statistics does not exceed 15% in any model and the highest amount of variance accounted for is 28.67% (preference for variety), suggesting the potential of other

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predictor variables that are not accounted for in the current study. Practical implications of these results will be further explored in the discussion section.

Table 6.

*Multiple regression model for 18 job characteristics predicted by personality trait and facets.*

		Personality trait			Personality facet			
		$\beta$	F (df)	Adj. R <sup>2</sup>	$\beta$	F (df)	Adj. R <sup>2</sup>	
Interest	C	0.58*	5.63 (2, 106)	7.90%**	C4	0.47*	9.55 (3, 105)	19.19%**
	E	0.59*			E3	0.53*		
<b><math>\Delta R^2 = 11.29\%</math></b>								
Promotion	E	0.61**	8.03 (1, 107)	6.11%**	E1	0.38*	6.54 (3, 105)	13.34%**
					O6	-0.44*		
<b><math>\Delta R^2 = 7.23\%</math></b>								
Ability	E	0.77**	13.70 (1, 107)	10.52%**	C1	0.45*	7.29 (4, 104)	18.89%**
					E3	0.34*		
					N2	0.35*		
<b><math>\Delta R^2 = 8.37\%</math></b>								
Variety	E	1.03**	5.40 (4, 104)	14.02%**	E3	0.54*	8.23 (6, 102)	28.67%**
					N2	0.35*		
					O1	0.28*		
					O6	-0.39*		
<b><math>\Delta R^2 = 14.56\%</math></b>								
Autonomy	O	0.77*	6.77 (4, 104)	17.61%**	C4	0.46*	12.4 (3, 105)	24.05%**
	C	0.77*			E3	0.54**		
	E	0.44*			O1	0.36*		
	A	-0.57*						
<b><math>\Delta R^2 = 6.44\%</math></b>								
Colleague	C	0.88**	6.46 (3, 105)	13.17%**	C3	0.44*	6.01 (3, 105)	12.21%**
	E	0.53*			O3	0.24*		
	N	0.63*						
<b><math>\Delta R^2 = -0.96\%</math></b>								
Manager	C	0.48*	5.41 (3, 105)	10.91%*	A3	0.43*	8.09 (4, 104)	20.79%**
	E	0.65**			C1	0.45*		
	N	0.37*						
<b><math>\Delta R^2 = 9.88\%</math></b>								
Interaction	E	0.93**	6.43 (2, 106)	9.13%*	C1	0.53*	5.49 (4, 104)	14.25%**
					N2	0.41*		
<b><math>\Delta R^2 = 5.12\%</math></b>								
Diversity	C	0.84*	6.38 (4, 104)	16.58%**	A5	0.49*	6.21 (5, 103)	19.43%**
	E	0.86*			E2	0.36*		
	N	0.75*			E4	0.32*		
<b><math>\Delta R^2 = 2.85\%</math></b>								
Work-life balance	C	0.48*	10.12 (2, 106)	14.45%**	C3	0.38*	5.73 (5, 103)	17.96%**
	E	0.63**			E1	0.45*		
<b><math>\Delta R^2 = 3.51\%</math></b>								
Anti-Bully	E	0.73*	5.09 (3, 105)	10.19%*	A5	0.44*	5.43 (5, 103)	17.03%*
	N	0.61*			E6	0.39*		
					N2	0.25*		

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$\Delta R^2 = 6.84\%$								
Environment	C	0.86*	4.36 (3, 105)	8.52%*	C1	0.76*	6.41 (3, 105)	13.07%**
	E	0.70*			O3	0.35*		
$\Delta R^2 = 4.55\%$								
Salary	A	-0.92*	4.40 (4, 104)	11.19%*	A2	-0.42*	9.82 (3, 105)	19.68%**
	N	0.72*			O6	-0.81**		
$\Delta R^2 = 8.94\%$								
Benefit	C	0.87*	5.46 (4, 104)	14.18%**	A2	-0.31*	9.66 (4, 104)	24.28%**
	E	0.68*			C4	0.58**		
	A	-0.83*			N2	0.41**		
	N	0.85**			O6	-0.62*		
$\Delta R^2 = 10.10\%$								
Tenure	N	0.84*	3.81 (3, 105)	7.24%*	O6	-0.65*	5.20 (3, 105)	10.44%**
$\Delta R^2 = 3.20\%$								
Hour	E	0.52*	3.62 (2, 106)	4.62%*	A4	-0.39*	7.51 (3, 105)	15.31%**
					C4	0.67**		
					C6	-0.29*		
$\Delta R^2 = 10.69\%$								
Open office	O	-0.73*	4.38 (4, 104)	11.13%*	E5	0.55*	6.22 (3, 105)	12.65%**
	E	0.88*			O5	-0.40*		
$\Delta R^2 = 1.52\%$								
Private office	C	0.91*	4.74 (3, 105)	9.42%*	A2	-0.61*	7.01 (2,106)	10.10%**
	A	-1.12*			E6	-0.47*		
	N	0.77*						
$\Delta R^2 = 0.68\%$								

Note. \*  $p < 0.05$ ; \*\*  $p < 0.001$

### **Discussion**

Targeted recruitment is a key strategy in the field of human resource and is essential to creating a person-job fit, which is believed to contribute to job performance and satisfaction (Lin, Yu & Yi, 2014). By advertising certain job and organisational characteristics, company recruiters can attract talents with preferences or needs that fit with those of the organisation's, thus creating better person-organisation fit (Sekiguchi & Huber, 2011). The overarching purpose of this study was to investigate the relationship between job characteristic preferences (JCPs) and its predictors in modern job context. The first aim was to explore JCPs for self and others amongst undergraduates. Based on Jurgenson's results (1978), it was proposed that there will be a difference in the perceived importance of salary for self and other, regardless of gender. T-test results partially supported the hypothesis and revealed differences in other preferences as well. The second aim was to explore the relationship between personality and JCPs. Only two hypotheses were proposed since there is little research in the literature to suggest a strong relationship between personality and JCPs. The results and practical implications, along with methodological strengths and limitations are discussed below.

#### **4.1. Aim 1: Explore job characteristic preferences for self and others amongst undergraduates.**

Results suggested that employment conditions (salary, benefits, stable tenure and flexible working hours) and some physical characteristics (open-office layout and ergonomics) tend to be perceived as more important for others than self. These findings do not suggest that certain job characteristics are more important than others but showed that there are differences in the perceived importance of job characteristic for self and others. This is most applicable to the recruitment context, in which recruiters need to decide on recruitment strategies to attract talents that are suited to the company's needs. In line with

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Jurgenson's (1978) results, current results showed that the importance of providing an attractive and competitive reward scheme is generally over-emphasised. As suggested by Chapman and colleagues (2005), providing a competitive remuneration package may have an effect on attraction but only to a certain extent. The same can be concluded about the use of open-office layout and ergonomically designed furniture, where the influence it has on employee satisfaction and productivity is far less clear than the benefit of cost and space saving.

There were also differences in perception with regards to several task, social and organisational characteristics. Specifically, interesting work, relationship with manager, and workplace policies (anti-bully and environmental protection) were rated as more important to oneself than to others. Recruiters should consider providing more information on these areas to applicants throughout different stages of the recruitment process. As these are seen as important aspects of work, such can help applicants form a more accurate image of the workplace, thereby enhancing person-organisation fit. To enhance the application of job characteristic research, future studies should aim to establish a link between JCPs, satisfaction of preference and various job and organisational outcomes. For example, future studies can investigate whether individuals with a preference for challenging work will be more satisfied and productive compared to those who do not have the preference, when working in the same job role.

Despite confirming findings from Jurgenson's study, the current sample is highly skewed in terms of demographics, preferences and personality, hence affecting the generalisability of our findings. Previous research suggested that formation of preferences is primarily influenced by intrinsic goals and individual characteristics (Barrick, Mount and Li, 2013). However, employment experience in a specific discipline may shape individual preferences to reflect the reality of the job market. Therefore, undergraduate students with



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little employment experience may have general expectations of, and preference for job characteristics, but these may be unrepresentative of employment in their respective field. Since preliminary analysis also showed that the number of previous jobs did not influence JCPs, this effect may only relate to employment experience in the field of study. Further study will be needed to investigate the influence of study disciplines (e.g. commerce versus engineering students) on JCPs.

### **4.2. Aim 2: Explore the relationship between Big-Five personality (trait and facets) and job characteristic preferences.**

With respect to the second aim, it was confirmed that Extraversion was predictive of preferences for all social characteristics, while Agreeableness only predicted preference for competent and sociable colleagues. However, our results showed that there were distinctive patterns of personality facets associated with JCPs.

Preference in task characteristics were primarily associated with Extraversion, Openness and Conscientiousness facets. Assertiveness (E3) consistently predicted preference for four task characteristics (interest, ability, variety and autonomy) but did not predict any other JCPs. This suggests that highly assertive individuals prefer performing in roles that allow for autonomy and variety and offer opportunities to demonstrate different skills. They are also likely to prefer challenging and interesting work for similar reasons. Highly assertive individuals tend to prefer taking charge and be leaders of activity, hence explains its association with preference for several task characteristics.

Achievement-striving (C4) was associated with preference for challenging work and autonomy. Individuals scoring high on C4 are driven to be recognised for their success and have a strong sense of direction. They are likely to prefer completing challenging tasks at their own discretion as this will directly associate their ability and success. High imagination (O1) was correlated with creativity, and therefore linked to preferences for work variety and

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autonomy. Finally, liberalism (O6) was a negative predictor of preference for variety and promotion. Individuals scoring low on O6 tend to be conservative and less ready to challenge authorities, hence they are likely to accept the job role as it is and are less driven to negotiate for change.

Preference for employment conditions were consistently predicted by Agreeableness and Openness facets. Both morality (A2) and liberalism (O6) were negative predictors of preference for above average salary and benefits. O6 was also the sole predictor for preference for stable tenure. Individuals scoring high on O6 and A2 tend to be conservative and perceive others as trustworthy. They are agreeable, sincere and less inclined to challenge authority. Therefore, they might see less opportunities and need to negotiate for their own benefit. This was also in line with the negative correlation between O6 and preference for task characteristics (promotion and variety). Interestingly, achievement-striving (C4) was a strong positive predictor of preference for benefit and flexible working hours. Benefits such as performance-based bonus provide clear recognition of success and are clearly linked to preferences of individuals scoring high on C4. However, the relationship between C4 and preference for flexible working hours is less clear. Given the positive correlation between C4 and activity-level (E4), it could be argued that those scoring high on C4 are often quick and energetic. Therefore, they might prefer to arrange working hours on their own terms to accommodate a variety of activities and duties.

On the other hand, correlations between personality traits and social, organisational and physical characteristics displayed less distinctive patterns. Although one hypothesis was partially confirmed, there were fewer personality facets that predicted multiple job characteristics in the same category (social, organisational and physical characteristics). Preference for three social characteristics was associated with different personality facets. Preference for competent and sociable colleagues is strongly predicted by high dutifulness

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(C3). It is possible that due to the wording of the items, participants showed preference for colleagues who are competent and can make a worthy contribution to work, hence explaining the relationship with C3. Preference for establishing positive relationship with managers and interaction with customer were both predicted by self-efficacy (C1), suggesting preference for social interaction is partially reliant on perceived competency. With respect to organisational characteristics, Modesty (A5), Gregariousness (E2), Activity level (E4), and Cheerfulness (E6) were strong predictors of preference for diversity and anti-bully policies. Finally, preference for office layout (open vs. private) were predicted by different personality traits. Open office preference was positively predicted by Excitement-Seeking (E5) and negatively predicted by Intellect (O5), suggesting individuals who prefer to be constantly stimulated would prefer working in open offices. On the contrary, low Cheerfulness (E6) and Morality (A2) predicted preferences for private offices.

### **4.3. Implications**

The current study provides rationale for tailoring recruitment strategies to attract talents that fits with the company. It was revealed that there are differences in the perceived importance of several job characteristics for self and others. Applying this to the recruitment context, time and resources are often misused by focusing on seemingly important aspects of job and workplace that may have little impact on recruitment and employment outcomes. Instead, there should be a focus on distributing information about the organisation and nature of work in addition to employment conditions and physical characteristics of the workspace. Companies and recruitment managers should also pay attention to how the organisation is perceived through various media. Previous research suggests that job applicants form an image of a potential employer through gathering information from various sources, such as employer website, third-party reviews, general media and social networks (Breugh, 2008). By delivering a consistent message across different medium and focus on presenting

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important job characteristics, recruiters are able to target applicants with specific preferences that will fit with the organisation's needs and goals. For example, preference for task characteristics were strongly predicted by Extraversion and Conscientiousness facets. For new start companies that are looking for motivated individuals to lead and take charge, it would be best to highlight potential opportunities for challenging and interesting work in the workplace as oppose to solely focusing on offering attractive remuneration schemes and promoting the utility of workspace design.

Although the present study is primarily driven by recruitment research, strong correlations between personality traits and several JCPs suggest new ways to utilise personality profiling for selection and development purposes. Researchers have struggled to identify a consistent relationship between personality and work-related outcomes, such as performance and satisfaction (Moyle & Hackston, 2018). This is primarily due to the fact that personality traits only infer the likely behaviour within the given context. Study by Judge and Zapata (2015) clearly indicate the importance of work context when considering the influence of personality. When work context contains trait-specific characteristics, the influence of personality on work performance were found to be higher. Therefore, by linking personality traits and JCPs, the effect of personality on job outcomes will also become apparent. This will ensure that tailored recruitment practice will also have an impact at later stages of employment. For example, personality profile and preference can provide useful information for employee development. By understanding individual preferences for challenges and autonomy through performance and development conversation, managers can alter practices around work delegation and organisation in ways that account for personality and needs, thus improving job performance.

### **4.4. Strengths and limitations**

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Expanding upon previous research, the current study examined the relationship between JCPs and both personality traits and facets. Current findings showed that personality facets provide additional information to help understand individual differences in preferences. To the author's knowledge, this approach has yet to be applied to the job characteristics literature and future research should aim to adopt a similar methodology. In the same vein, the current study explored preferences using rating rather than forced rankings. This helped clarify the relationship between preferences and multiple personality traits. For future research, JCPs can also be correlated with other personal and organisational variables.

Several methodological limitations will need to be taken into consideration when interpreting our findings. As mentioned, the sample size is small and skewed on many variables, which is unrepresentative of the general population. This prevented us from further examining the effects of demographics on JCPs and generalise findings to the larger population.

The psychometric properties of the JCPs instrument poses a significant weakness. As the instrument is an aggregation of items from different research and was not developed based on factor analysis, the validity and reliability were not examined. Based on differential correlation patterns between different categories of preference and personality facets, we can only hypothesise that there is an underlying structure to JCPs. Without a taxonomy supported by strong empirical evidence, results cannot be interpreted beyond the items itself.

Moreover, personality facets only accounted for 28% of the variance in preference at best. Most regression models did not account for more than 20% of the variance, indicating job characteristics selected may not be relevant and there are other predictors not accounted for. Finally, there were many correlations between preference and personality facets that were underexplored or unexplained. For example, anger (N2) appeared to be a consistent predictor

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for a number of different preferences but the meaning of these relationships is not apparent. On the other hand, thematically linked facets and preferences were not detected, such as Achievement-striving (C4) and preference for demonstrating a variety of abilities, or Friendliness (E1) and preference for customers interaction.

### **4.5. Future research**

In light of the implications and limitations discussed, there are several areas in which future research should focus on.

The first area relates to consolidating our understanding of job characteristics and preferences in the modern workplace. As previously mentioned, there are no empirical studies conducted to produce a JCPs framework and inventory that can comprehensively capture the complex and multidimensional nature of work in the modern days. Further research should direct effort into creating and validating job characteristics and preferences measures, while also developing a job characteristics framework for researchers to follow. This will assist researcher in selecting and measuring job characteristics that are relevant to the workplace. Moreover, further research should direct effort into reviewing and validating the relationship between job characteristics and organisational outcomes.

The second area focuses on further exploring the relationship between job characteristics and preferences with other predictor variables, and the implication this has on personal and organisational outcomes. Future research should explore the effect of socio-demographic variables, such as field of education, education level, occupation, and family and marital status, on JCPs. The relationship between individual preferences and workplace outcomes should also be established.

### **4.6. Conclusion**

As human resource practices become increasingly important in today's global business environment, companies will need to improve and adapt practices to create a fit

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between its employees and the organization. Despite several methodological limitations, the present study revealed differences in JCPs associated with self and others, as well as distinctive patterns of correlation between certain personality traits and JCPs. The results provide meaningful insight into the ways in which individuals perceive certain job characteristics to be more important for others and vice versa, thus contributing to recruitment practices that are misaligned with job applicants' preferences. The current study also provided a starting point for future studies to further explore personality underpinnings of JCPs, which have strong implications at various stages of the employment cycle for both the employee and employer.

**References**

- Ashkanasy, N. M., Ayoko, O. B., & Jehn, K. A. (2014). Understanding the physical environment of work and employee behavior: An affective events perspective. *Journal of Organizational Behavior, 35*, 1169-1184.
- Australia Bureau of Statistics (1991). *Census of Population and Housing: 1991 Census of Population and Housing*. Retrieved from [https://www.ausstats.abs.gov.au/ausstats/free.nsf/0/792BBD9457634FFECA2574BE00826627/\\$File/27100\\_1991\\_20\\_Census\\_Characteristics\\_of\\_Australia.pdf](https://www.ausstats.abs.gov.au/ausstats/free.nsf/0/792BBD9457634FFECA2574BE00826627/$File/27100_1991_20_Census_Characteristics_of_Australia.pdf)
- Australia Bureau of Statistics (2016). *2006 Census of Population and Housing: Working Population Profile*. Retrieved from [https://quickstats.censusdata.abs.gov.au/census\\_services/getproduct/census/2016/communityprofile/036?opendocument](https://quickstats.censusdata.abs.gov.au/census_services/getproduct/census/2016/communityprofile/036?opendocument)
- Barakat, S. R., Isabella, G., Boaventura, J. M. G., & Mazzon, J. A. (2016). The influence of corporate social responsibility on employee satisfaction. *Management Decision, 54*(9), 2325-2339.
- Barrick, M. R., Mount, M. K. & Li, N. (2013). The theory of purposeful work behaviour: The role of personality, higher-order goals, and job characteristics. *Academy of Management Review, 38*(1), 132-153.
- Berings, D., Fruyt, F. D., Bouwen, R. (2004). Work values and personality traits as predictors of enterprising and social vocational interests. *Personality and Individual Difference, 36*, 349-364.
- Breaugh, J. A. (2008). Employee recruitment: Current knowledge and important areas for future research. *Human Resource Management Review, 18*, 103-118.



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- Carless, S. A. & Imber, A. (2007). Job and organisational characteristics: A construct evaluation of applicant perceptions. *Educational and Psychological Measurement*, 67(2), 328-341.
- Carnevale, D. G., & Rios, J. M. (1995). How employees assess the quality of physical work settings. *Productivity in Review*, 18(3), 221-231.
- Casper, W. J., Wayne, J. H., & Manegold, J. G. (2013). Who will we recruit? Targeting deep- and surface-level diversity with human resource policy advertising. *Human Resource Management*, 52(3), 311-332.
- Chapman, D. S., Uggerslev, K. L., Carroll, S. A., Piasentin, K. A., & Jones, D. A. (2005). Applicant attraction to organisations and job choice: A meta-analytic review of the correlates of recruiting outcomes. *Journal of Applied Psychology*, 90(5), 928-944.
- Corrigall, E. A., & Konrad, A. M. (2006). The relationship of job attribute preferences to employment, hours of paid work, and family responsibilities: an analysis comparing women and men. *Sex Roles*, 54, 95-111.
- Costa, P. T., & McCrae, R. R. (1992). Revised NEO personality inventory (NEO PI-RTM) and NEO five-factor inventory (NEO-FFI): Professional manual. Odessa, FL: Psychological Assessment Resources.
- Dahlsrud, A. (2008). How corporate social responsibility is defined: an analysis of 37 definitions. *Corporate Social Responsibility and Environmental Management*, 15, 1-13.
- Dogl, C., & Holtbrugge, D. (2014). Corporate environmental responsibility, employer reputation and employee commitment: an empirical study in developed and emerging economics. *The International Journal of Human Resource Management*, 25(12), 1739-1762.

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

- Fried, Y., & Ferris, G. R. (1987). The validity of the job characteristics model: A review and meta-analysis. *Personnel Psychology*, 40, 287-322.
- Grant, A. M., Fried, Y., & Juillerat, T. (2011). Work matters: Job design in classic and contemporary perspectives. In S. Zedeck (Eds.), *APA handbook of Industrial and Organizational Psychology, Volume III* (417-453). Washington, DC: American Psychological Association
- Gomes, D., & Neves, J. (2011). Organizational attractiveness and prospective applicant's intentions to apply. *Personnel Review*, 40(6), 684-699.
- Harris, M. M., & Fink, L. S. (1987). A field study of applicant reactions to employment opportunities: Does the recruiter make a difference? *Personnel Psychology*, 40, 765-784.
- Heider, F. (1958). *The psychology of interpersonal relations*. London: Lawrence Erlbaum Associates.
- Humphrey, S. E., Nahrgang, J. D., & Morgeson, F. P. (2007). Integrating motivational, social, and contextual work design features: A meta-analytic summary and theoretical extension of the work design literature. *Journal of Applied Psychology*, 92(5), 1332-1356.
- Johns, G. (2006). The essential impact of context on organizational behavior. *Academy of Management Review*, 31(2), 386-408.
- Johnson, J. A. (2014). Measuring thirty facets of the Five Factor Model with a 120-item public domain inventory: Development of the IPIP-NEO-120. *Journal of Research in Personality*, 51, 78-89.
- Judge, T. A., & Zapata, C. P. (2015). The person-situation debate revisited: effect of situation strength and trait activation on the validity of the big five personality traits in predicting job performance. *Academy of Management Journal*, 58(4), 1149-11

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

- Jurgensen, C. E. (1978). Job Preferences (What Makes a Job Good or Bad?). *Journal of Applied Psychology*, 63(3), 267-276
- Kausel, E. E. & Slaughter, J. E. (2011). Narrow personality traits and organizational attraction: Evidence for the complementary hypothesis. *Organizational Behavior and Human Decision Process*, 114, 3-14
- Kim, J., & Dear, R. (2013). Workspace satisfaction: The privacy-communication trade-off in open-plan offices. *Journal of Environmental Psychology*, 36, 18-26
- Kim, S. E., & Young, W. R. (2014). Office characteristics and perceived behavioural outcomes in a public agency. *Public Performance & Management Review*, 38(1), 76-99
- Konrad, A. M. (2003). Family demands and job attributes preferences: A 4-year longitudinal study of women and men. *Sex Roles*, 49, 35- 46
- Lin, Y., Yu, C., & Yi, C. (2014). The effects of positive affect, person-job fit, and well-being on job performance. *Social Behavior and Personality*, 42(9), 1537-1548.
- Liu, Y., Combs, J. G., Ketchen Jr., D. J., & Ireland, R. D. (2007). The value of human resource management for organizational performance. *Business Horizons*, 50, 503-511
- Maher, A., & Hippel, C. (2005). Individual differences in employee reactions to open-plan offices. *Journal of Environmental Psychology*, 25, 219-229
- Morgeson, F. P., & Humphrey, S. E. (2006). The work design Questionnaire (WDQ): Developing and validating a comprehensive measure for assessing job design and the nature of work. *Journal of Applied Psychology*, 91(6), 1321-1339
- Moyle, P., & Hackston, J. (2018). Personality assessment for employee development: Ivory tower or real world? *Journal of Personality Assessment*, 100(5), 507-517

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

- Oldham, G. R., & Brass, D.J. (1979). Employee reactions to an open-plan office: A naturally occurring quasi-experiment. *Administrative Science Quarterly*, 24(2), 267–284
- Oldham, G. R., & Fried, Y. (2016). Job design research and theory: Past, present and future. *Organizational Behavior and Human Decision Processes*, 136, 20-35
- Oldham, G.R., & Fried, Y. (1987). Employee reactions to workspace characteristics. *Journal of Applied Psychology*, 72(1), 75–80
- Oldham, G. R., & Rotchford, N. L. (1983). Relationships between office characteristics and employee reactions: A study of the physical environment. *Administrative Science Quarterly*, 28, 542-556
- Osborn, D. P. (1990). A re-examination of the organizational choice process. *Journal of Vocational Behavior*, 36, 45-60
- Posner, B. Z. (1987). Comparing recruiter, student, and faculty perceptions of important applicant and job characteristics. *Personnel Psychology*, 34, 329-339
- Rubenstein, A. L., Zhang, Y., Ma, K., Morrison, H. M., & Jorgensen, D. F. (2019). Trait expression through perceived job characteristics: A meta-analytic path model linking personality and job attitudes. *Journal of Vocational Behaviour*, 112, 141-157
- Saks, A. M., & Ashforth, B. E. (1997). A longitudinal investigation of the relationships between job information sources, applicant perceptions of fit and work outcomes. *Personnel Psychology*, 50, 359-426.
- Sekiguchi, T., & Huber, V. L. (2011). The use of person-organization fit and person-job fit information in making selection decisions. *Organizational Behavior and Human Decision Processes*, 116, 203-216
- Shorey, H. S. (2018). Introduction to the special issues on the role of personality assessment in consulting to organizations. *Journal of Personality assessment*, 100(5), 493-497

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

- Swann, W. B. (1983). Self-verification: Bringing social reality into harmony with the self. In J. Suls & A. G. Greenwald (Eds.) *Social Psychological Perspectives on the Self* (pp. 33–66). Psychology Press.
- Swider, B. W., Zimmerman, R. D., Charlier, S. D., & Pierotti, A. J. (2015). Deep-level and surface-level individual differences and applicant attraction to organizations: A meta-analysis. *88*, 73-83
- Uggersley, K. L, Fassina, N. E., & Kraitchy, D. (2012). Recruiting through the stages: A meta-analytic test of predictors of applicant attraction at different stages of the recruiting process. *65*, 597-600
- Vandenberghe, C., St-Onge, S., & Robineau, E. (2008). An analysis of the relation between personality and the attractiveness of total rewards components. *Industrial relations*, *63*(3), 425-453.
- Vercic, A. T., & Coric, D. S. (2018). The relationship between reputation, employer branding and corporate social responsibility. *Public Relations Review*, *44*, 444-452.
- Vischer, J.C. (2008). Toward a user-centered theory of the built environment. *Building Research & Information*, *36*(3), 231–240.
- Winter, R. P., & Jackson, B. A. (2016). Work values preferences of Generation Y: performance relationship insights in the Australian Public Service. *The International Journal of Human Resource Management*, *27*(17), 1997-2015
- Wegman, L. A., Hoffman, B. J., Carter, N. T., Twenge, J. M., & Guenole, N. (2018). Placing job characteristics in context: Cross-temporal meta-analysis of changes in job characteristics since 1975. *Journal of Management*, *44*(1), 352-386
- Wright, P. M., McMahan, G. C., & McWilliams, A. (1994). Human resources and sustained competitive advantage: a resource-based perspective. *International Journal of Human Resource Management*, *5*(2), 301-326.

**JOB CHARACTERISTIC PREFERENCES AND PERSONALITY**  
**Appendix A: Job Characteristic Preferences (Self) Correlation Matrix**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1. Interest	1																							
2. Promo	0.40	1																						
3. Ability	0.45	0.40	1																					
4. Train	0.35	0.50	0.42	1																				
5. Variety	0.57	0.43	0.67	0.47	1																			
6. Auto	0.50	0.26	0.38	0.25	0.47	1																		
7. Colleague	0.28	0.16	0.44	0.28	0.40	0.28	1																	
8. Manager	0.27	0.26	0.36	0.26	0.30	0.20	0.39	1																
9. Interact	0.35	0.23	0.46	0.31	0.53	0.29	0.29	0.31	1															
10. Diversity	0.18	0.29	0.23	0.12	0.32	0.37	0.35	0.25	0.33	1														
11. WL balance	0.18	0.47	0.23	0.29	0.31	0.30	0.35	0.35	0.08	0.57	1													
12. Safety	0.46	0.36	0.23	0.29	0.33	0.27	0.32	0.27	0.24	0.33	0.41	1												
13. Bully	0.13	0.26	0.28	0.16	0.36	0.29	0.44	0.35	0.29	0.60	0.51	0.44	1											
14. Environment	0.28	0.27	0.34	0.10	0.44	0.27	0.32	0.28	0.16	0.48	0.39	0.27	0.49	1										
15. Location	0.14	0.15	0.14	0.18	0.23	0.14	0.25	0.12	0.07	0.05	0.10	0.34	0.09	0.09	1									
16. Salary	0.15	0.29	0.31	0.30	0.32	0.18	0.15	0.10	0.20	-0.09	0.06	0.07	-0.04	-0.02	0.15	1								
17. Benefit	0.43	0.64	0.45	0.38	0.57	0.31	0.22	0.19	0.32	0.25	0.32	0.46	0.32	0.41	0.22	0.47	1							
18. Tenure	0.24	0.47	0.23	0.28	0.32	0.18	0.34	0.16	0.17	0.21	0.34	0.37	0.31	0.28	0.23	0.47	0.59	1						
19. Hour	0.24	0.15	0.38	0.07	0.44	0.21	0.20	0.33	0.21	0.17	0.25	0.22	0.20	0.18	0.30	0.20	0.23	-0.02	1					
20. Condition	0.13	0.32	0.22	0.37	0.24	0.17	0.22	0.35	0.06	0.19	0.39	0.49	0.4	0.23	0.26	0.16	0.33	0.32	0.27	1				
21. Ergo	0.43	0.33	0.29	0.31	0.43	0.31	0.24	0.09	0.30	0.12	0.23	0.57	0.22	0.21	0.23	0.32	0.54	0.40	0.16	0.39	1			
22. Open	0.22	0.11	0.23	0.05	0.33	0.06	0.22	0.06	0.38	0.12	0.13	0.38	0.27	0.20	0.15	0.19	0.27	0.22	0.19	0.13	0.39	1		
23. Private	0.41	0.29	0.14	0.15	0.29	0.28	-0.05	0.07	0.20	-0.04	0.06	0.11	-0.05	0.17	0.06	0.42	0.41	0.31	0.20	0.27	0.40	0.09	1	

Note. Green =  $p < 0.001$ ; yellow =  $p < 0.05$

JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

Appendix B: Job Characteristic Preferences (Others) Correlation matrix

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1. Interest	1																							
2. Promotion	0.29	1																						
3. Ability	0.45	0.27	1																					
4. Train	0.31	0.40	0.43	1																				
5. Variety	0.57	0.29	0.6	0.42	1																			
6. Autonomy	0.27	0.47	0.31	0.33	0.33	1																		
7. Colleague	0.37	0.26	0.32	0.21	0.35	0.22	1																	
8. Manager	0.33	0.22	0.23	0.16	0.17	0.42	0.41	1																
9. Interact	0.48	0.18	0.48	0.21	0.37	0.39	0.21	0.38	1															
10. Diversity	0.51	0.21	0.45	0.28	0.51	0.15	0.3	0.26	0.48	1														
11. WL balance	0.36	0.35	0.37	0.32	0.48	0.27	0.62	0.36	0.28	0.44	1													
12. Safety	0.54	0.26	0.46	0.2	0.46	0.26	0.28	0.26	0.42	0.42	0.37	1												
13. Bully	0.47	0.23	0.44	0.24	0.46	0.1	0.22	0.18	0.39	0.64	0.36	0.69	1											
14. Environment	0.47	-0.03	0.36	0.26	0.42	-0.02	0.1	0.16	0.39	0.56	0.22	0.49	0.55	1										
15. Location	0.20	0.14	0.16	0.19	0.17	-0.01	0.21	0.08	0.15	0.15	0.33	0.30	0.29	0.21	1									
16. Salary	0.09	0.31	-0.01	0.02	0.02	0.14	0.11	0.09	0.07	-0.06	0.06	0	-0.01	-0.05	0.14	1								
17. Benefit	0.27	0.43	0.2	0.18	0.24	0.16	0.36	0.18	0.29	0.23	0.39	0.19	0.19	0.17	0.24	0.46	1							
18. Tenure	0.27	0.48	0.33	0.40	0.35	0.23	0.25	0.25	0.28	0.35	0.32	0.25	0.37	0.29	0.09	0.26	0.62	1						
19. Hour	0.28	0.31	0.37	0.37	0.42	0.11	0.35	0.13	0.21	0.31	0.55	0.3	0.34	0.24	0.30	0.24	0.55	0.37	1					
20. Condition	0.28	0.25	0.30	0.34	0.32	-0.03	0.21	0.12	0.25	0.43	0.30	0.53	0.52	0.42	0.37	0.1	0.28	0.4	0.38	1				
21. Ergonomic	0.38	0.31	0.38	0.31	0.39	0.24	0.29	0.2	0.31	0.44	0.35	0.55	0.52	0.40	0.32	0.1	0.29	0.29	0.41	0.58	1			
22. Open	0.39	0.06	0.24	0.11	0.34	0.04	0.16	0.02	0.27	0.32	0.16	0.37	0.35	0.41	0.22	0.01	0.05	0.08	0.19	0.37	0.42	1		
23. Private	0.31	0.25	0.26	0.30	0.24	0.23	0.11	0.06	0.31	0.12	0.1	0.25	0.16	0.31	0.13	0.37	0.42	0.36	0.28	0.28	0.37	0.24	1	

Note. Green =  $p < 0.001$ ; yellow =  $p < 0.05$





JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

Appendix D: Job Characteristic Preferences (Self) and Personality facets correlation matrix

	A1	A2	A3	A4	A5	A6	C1	C2	C3	C4	C5	C6	E1	E2	E3	E4	E5	E6	N1	N2	N3	N4	N5	N6	O1	O2	O3	O4	O5	O6
1 Interest			0.25				0.28			0.36			0.21		0.34														0.24	
2 Promotion										0.19			0.33		0.21		0.2													-0.25
3 Ability			0.26				0.24			0.24			0.29	0.21	0.32		0.2			0.22		-0.21								
4 Train																														
5 Variety							0.24			0.27			0.26	0.19	0.4	0.24	0.25			0.24		-0.23			0.2					-0.19
6 Autonomy							0.3			0.34			0.22		0.38							-0.31			0.23	0.26			0.21	
7 Colleague			0.29			0.22	0.22		0.28	0.26			0.19														0.2			
8 Manager			0.39			0.2	0.28			0.35			0.28				0.24	0.26									0.21		0.23	
9 Interact			0.2				0.19			0.19			0.2	0.22	0.28					0.24										
10 Diversity			0.33		0.25	0.28			0.2				0.27	0.26		0.19										0.23	0.23			
11 WL balance			0.24			0.22	0.27		0.25	0.28			0.35	0.21	0.19			0.26				-0.26					0.2			
12 Safety																														
13 Bully					0.21											0.19	0.2	0.2		0.21							0.23			
14 Environment						0.19	0.28			0.21			0.21	0.21	0.22	0.2											0.21			
15 Location																														
16 Salary		-0.29		-0.24					-0.2											0.22								-0.19		-0.36
17 Benefit		-0.22								0.2										0.32							0.19			-0.27
18 Tenure																				0.22	0.19		0.22							-0.27
19 Hour				-0.23			0.21			0.19		-0.23			0.22					0.2										
20 Condition																														
21 Ergonomic																														
22 Open		-0.22		-0.23					-0.21			-0.26					0.21										-0.2		-0.25	
23 Private		-0.29		-0.2					-0.2									-0.21									-0.23			

Note. Only correlation <- 0.20 or > 0.20 are shown

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

### Appendix E: Job characteristic Preferences (self) and personality trait correlation matrix

	O	C	E	A	N
1. Interest	0.13	0.21	0.24	0.14	-0.07
2. Promotion	0.03	0.06	0.26	-0.02	0.01
3. Ability	0.07	0.07	0.34	-0.03	-0.03
4. Train	0.09	0.18	0.12	0.07	-0.03
5. Variety	0.13	0.07	0.37	-0.01	-0.01
6. Autonomy	0.3	0.25	0.25	0.02	-0.17
7. Colleague	0.13	0.2	0.2	0.21	0.09
8. Manager	0.18	0.12	0.3	0.18	0.03
9. Interact	-0.03	0.02	0.29	0.01	0.07
10. Diversity	0.17	0.17	0.27	0.27	0.08
11. WL balance	0.16	0.24	0.34	0.16	-0.11
12. Safety	-0.01	0.09	0.04	0.05	0.07
13. Bully	0.19	0.07	0.25	0.07	0.11
14. Environment	0.17	0.18	0.23	0.12	0
15. Location	-0.1	0.19	0.01	0.06	0
16. Salary	-0.13	-0.12	0.06	-0.26	0.22
17. Benefit	0.03	0	0.16	-0.17	0.19
18. Tenure	-0.06	-0.01	0.1	-0.04	0.23
19. Hour	-0.01	-0.05	0.19	-0.13	0.01
20. Condition	0.07	-0.01	-0.02	-0.05	0.16
21. Ergonomic	0.05	0.08	0.06	-0.08	0.09
22. Open	-0.2	-0.08	0.19	-0.17	0.12
23. Private	-0.11	-0.02	-0.07	-0.24	0.17

Note. Green =  $p < 0.001$ ; yellow =  $p < 0.05$ ; O = Openness, C = Conscientiousness, E = Extraversion, A = Agreeableness, N = Neuroticism

**Appendix F: Survey**

What makes an interesting job? (student)

**Participant Information**

**1. What is this project about?**

This research project is designed to investigate what job characteristics attract students when applying for a job, and how their preferences for particular job characteristics are influenced by their personality. The study aim is to investigate recent changes in such preferences and to compare them with those currently in the workforce.

**2. Who is undertaking the project?**

This project is being conducted by Brian Tang. This research will form the basis for the degree of Master of Psychology (Organisational and Human Factors) at the University of Adelaide under the supervision of Dr Neil Kirby.

**3. Who is being invited to participate?**

We are recruiting Undergraduate Psychology students (all year levels) in University of Adelaide.

**4. What am I being invited to do?**

You are being invited to complete a 20-minute online survey, which includes some basic demographic questions, a personality questionnaire and a job characteristics preference questionnaire.

There will be no follow-up requirements after completing the survey. This information will be accessed by the principal supervisor (Dr Neil Kirby) and student researcher (Brian Tang). All data will be de-identified for data analysis and reporting to ensure the protection of your privacy.

Upon completion of this survey, you can request a summary personality profile for personal development purposes!

**5. Can I withdraw from the project?**

Participation in this project is completely voluntary. You may withdraw or from the study at any time. If you do withdraw from the study, it will not affect your ongoing study at the university in any way.

**6. What will happen to my information?**

The information you provide from the survey will be confidentially stored, with no identifiable information attached to it, within the University of Adelaide database for a minimum of 5 years. ONLY the student researcher (Brian Tang) and principal researcher (Dr. Neil Kirby) will have access to the data and materials. All data and materials will be used in the thesis stated above. Your information will only be used as described in this participant information sheet and it will only be disclosed according to the consent provided, except as required by law.

**7. Who do I contact if I have questions about the project?**

If you have any questions about the project, please contact the student researcher:  
Brian Tang (Student researcher)

Email: [brian.tang@student.adelaide.edu.au](mailto:brian.tang@student.adelaide.edu.au)

**8. What if I have a complaint or any concerns?**

The study has been approved by the Human Research Ethics Committee at the University of Adelaide (approval number H-2019-62). This research project will be conducted according to the NHMRC National Statement on Ethical Conduct in Human Research 2007 (Updated 2018). If you have questions or problems associated with the practical aspects of your participation in the project, or wish to raise a concern or complaint about the project, then you should consult the Principal Investigator.

For any questions concerning the ethics of this project, please contact the convener of the Subcommittee for Human Research in the School of Psychology, Dr.Paul Delfabbro, 8313 4936

\* 1. I have read the information above, and understood that:

1. While information gained during the study may be published, I will be not be identified, and my personal information and responses will not be divulged;
2. I am free to withdraw from the project at any time and that this will not affect my study at the University now or in the future

Do you give consent to participate in the study described above?

Yes

No

What makes an interesting job? (student)

**Thank you for giving your consent!**

**A few things to keep in mind before proceeding:**

- 1. Instructions are provided for each set of the questionnaire, please read them carefully before answering the questions**
- 2. Please complete the survey alone in a quiet environment where you are unlikely to be disturbed or distracted**

2. If you are a **Year 1 Psychology student** participating through the RPS, please enter your 5 digit RPS ID below so your course credits can be allocated. Otherwise, please ignore this question

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

What makes an interesting job? (student)

### Demographics

\* 3. What is your age?

- |                                |                             |
|--------------------------------|-----------------------------|
| <input type="radio"/> Under 18 | <input type="radio"/> 35-44 |
| <input type="radio"/> 18-24    | <input type="radio"/> 45-54 |
| <input type="radio"/> 25-34    | <input type="radio"/> 55+   |

\* 4. What is your gender?

- Male
- Female
- Other
- Prefer not to say

\* 5. What is your year level?

- Year 1
- Year 2
- Year 3
- Honours

\* 6. Which of the following best describes your current relationship status?

- |   |   |
|---|---|
| <input type="radio"/> Single (never married)    | <input type="radio"/> Widowed           |
| <input type="radio"/> Married                   | <input type="radio"/> Divorced          |
| <input type="radio"/> In a domestic partnership | <input type="radio"/> Prefer not to say |

\* 7. How many jobs have you had? (including current jobs)

- |                         |                          |
|-------------------------|--------------------------|
| <input type="radio"/> 0 | <input type="radio"/> 3  |
| <input type="radio"/> 1 | <input type="radio"/> 4+ |
| <input type="radio"/> 2 |                          |

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

What makes an interesting job? (student)

### Job Characteristics Preference

#### What are the important things for you?

\* 8. For each of the job characteristics listed below, please indicate how important you think they are to **YOURSELF**, with 1 being "not important at all" and 7 being "extremely important"

	1 - Not important at all	2	3	4	5	6	7 - Extremely important
Performing intellectually challenging and interesting work (e.g. require you to solve complex problems)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Opportunities for promotion/advancement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Opportunities to use a number of different abilities and skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Opportunities for training and development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Allows you to perform a wide variety of activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have autonomy in making work-related decisions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Co-workers/colleagues are competent and sociable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have a positive relationship with superior and managers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have frequent interaction with external stakeholders (e.g. clients and suppliers)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The company/organisation promotes workforce diversity policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The company/organisation promotes work-life balance policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

\* 9. For each of the job characteristics listed below, please indicate how important you think they are to **YOURSELF**, with 1 being “not important at all” and 7 being “extremely important”

	1 - Not important at all	2	3	4	5	6	7 - Extremely important
The company/organisation promotes workplace safety policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The company/organisation promotes anti-bullying and discrimination policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The company/organisation promotes environment protection and waste reduction policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The company/organisation is in a desirable geographic location (e.g. close to home, family or friends)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Above average starting salary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fringe benefits (e.g. paid time off, health and life insurance, housing allowance, entertainment allowance, retirement plan contributions)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Secure employment tenure (prefer long-term contracts over temporary, short-term contracts)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Flexible working hours	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comfortable working conditions (e.g. lights, noise level, temperature, air quality, cleanliness)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ergonomically designed workspace (e.g. adjustable chairs and tables, sufficient distance from computer screen)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Open office with sharing workspace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

	1 - Not important at all	2	3	4	5	6	7 - Extremely important
Have a private workspace/office	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

What makes an interesting job? (student)

### Personality questionnaire

#### Instructions:

The following section contains phrases describing people's behaviour. Please indicate how strongly each phrase describes you, with 1 being "strongly disagree" and 5 being "strongly agree"

\* 10. Please try and describe yourself as you generally are now, not as you wish to be in the future. Go with your first instincts and try not to think too hard about each item.

	1 - Strongly disagree	2 - Slightly disagree	3 - Neither agree/disagree	4 - Slightly agree	5 - Strongly agree
Worry about things	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fear for the worst	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am afraid of many things	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Get stressed out easily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Get angry easily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Get irritated easily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lose my temper	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rarely get irritated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Often feel blue	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dislike myself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am often down in the dumps	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have a low opinion of myself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Find it difficult to approach others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am easily intimidated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am not embarrassed easily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am able to stand up for myself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Often eat too much	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Go on binges	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rarely overindulge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am able to control my cravings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

\* 11. Please try and describe yourself as you generally are now, not as you wish to be in the future. Go with your first instincts and try not to think too hard about each item.

	1 - Strongly disagree	2 - Slightly disagree	3 - Neither agree/disagree	4 - Slightly agree	5 - Strongly agree
Feel that I'm unable to deal with things	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Remain calm under pressure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Know how to cope	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am calm even in tense situations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make friends easily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Warm up quickly to others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feel comfortable around people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Act comfortably with others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Love large parties	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Talk to a lot of different people at parties	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Don't like crowded events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Avoid crowds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Take charge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Try to lead others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Take control of things	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wait for others to lead the way	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am always busy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am always on the go	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do a lot in my spare time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Can manage many things at the same time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

What makes an interesting job? (student)

### Personality questionnaire

#### Instructions:

The following section contains phrases describing people's behaviour. Please indicate how strongly each phrase describes you, with 1 being "strongly disagree" and 5 being "strongly agree"

\* 12. Please try and describe yourself as you generally are now, not as you wish to be in the future. Go with your first instincts and try not to think too hard about each item.

	1 - Strongly disagree	2 - Slightly disagree	3 - Neither agree/disagree	4 - Slightly agree	5 - Strongly agree
Love excitement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Seek adventure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Love action	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enjoy being reckless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Radiate joy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have a lot of fun	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Love life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Laugh aloud	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have a vivid imagination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enjoy wild flights of fantasy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Love to daydream	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Like to get lost in thought	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
See beauty in things that others might not notice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do not like art	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do not like poetry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do not enjoy going to art museums	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experience my emotions intensely	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Seldom get emotional	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am not easily affected by my emotions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experience very few emotional highs and lows	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

\* 13. Please try and describe yourself as you generally are now, not as you wish to be in the future. Go with your first instincts and try not to think too hard about each item.

	1 - Strongly disagree	2 - Slightly disagree	3 - Neither agree/disagree	4 - Slightly agree	5 - Strongly agree
Prefer to stick with things that I know	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dislike changes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Don't like the idea of change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am attached to conventional ways	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am not interested in abstract ideas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Avoid philosophical discussions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have difficulty understanding abstract ideas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am not interested in theoretical discussion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tend to vote for liberal political candidates	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Believe in one true religion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tend to vote for conservative political candidates	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Like to stand during the national anthem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Trust others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Believe that others have good intentions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Trust what people say	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Distrust people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use flattery to get ahead	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Know how to get around the rules	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cheat to get ahead	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Take advantage of others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What makes an interesting job? (student)

Personality questionnaire

**Instructions:**

**The following section contains phrases describing people's behaviour. Please indicate how strongly each phrase describes you, with 1 being "strongly disagree" and 5 being "strongly agree"**

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

\* 14. Please try and describe yourself as you generally are now, not as you wish to be in the future. Go with your first instincts and try not to think too hard about each item.

	1 - Strongly disagree	2 - Slightly disagree	3 - Neither agree/disagree	4 - Slightly agree	5 - Strongly agree
Make people feel welcome	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Love to help others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am concerned about others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Turn my back on others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Love a good fight	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Yell at people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insult people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Get back at others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Believe that I am better than others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Think highly of myself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have a high opinion of myself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make myself the centre of attention	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sympathise with the homeless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feel sympathy for those who are worse off than myself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suffer from others' sorrows	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am not interested in other people's problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete tasks successfully	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excel in what I do	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handle tasks smoothly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Know how to get things done	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

\* 15. Please try and describe yourself as you generally are now, not as you wish to be in the future. Go with your first instincts and try not to think too hard about each item.

	1 - Strongly disagree	2 - Slightly disagree	3 - Neither agree/disagree	4 - Slightly agree	5 - Strongly agree
Like order	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Like to tidy up	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Leave a mess in my room	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Leave my belongings around	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Keep my promises	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tell the truth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Break my promises	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Get others to do my duties	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Work hard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do more than what's expected of me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Set high standards for myself and others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am not highly motivated to succeed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Start tasks right away	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Find it difficult to get down to work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Need a push to get started	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have difficulty starting tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Jump into things without thinking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make rash decisions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rush into things	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Act without thinking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

What makes an interesting job? (student)

### Job Characteristics Preference

#### What do you think are important to other people?

\* 16. For each of the job characteristics listed below, please indicate how important you think they are to **OTHER PEOPLE in the workforce**, with 1 being "not important at all" and 7 being "extremely important"

	1 - Not important at all	2	3	4	5	6	7 - Extremely important
Performing intellectually challenging and interesting work (e.g. require you to solve complex problems)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Opportunities for promotion/advancement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Opportunities to use a number of different abilities and skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Opportunities for training and development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Allows you to perform a wide variety of activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have autonomy in making work-related decisions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Co-workers/colleagues are competent and sociable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have a positive relationship with superior and managers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have frequent interaction with external stakeholders (e.g. clients and suppliers)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The company/organisation promotes workforce diversity policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The company/organisation promotes work-life balance policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* 17. For each of the job characteristics listed below, please indicate how important you think they are to **OTHER PEOPLE in the workforce**, with 1 being "not important at all" and 7 being "extremely important"

## JOB CHARACTERISTIC PREFERENCES AND PERSONALITY

	important						
	1 - Not important at all	2	3	4	5	6	7 - Extremely important
The company/organisation promotes workplace safety policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The company/organisation promotes anti-bullying and discrimination policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The company/organisation promotes environment protection and waste reduction policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The company/organisation is in a desirable geographic location (e.g. close to home, family or friends)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Above average starting salary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fringe benefits (e.g. paid time off, health and life insurance, housing allowance, entertainment allowance, retirement plan contributions)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Secure employment tenure (prefer long-term contracts over temporary, short-term contracts)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Flexible working hours	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comfortable working conditions (e.g. lights, noise level, temperature, air quality, cleanliness)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ergonomically designed workspace (e.g. adjustable chairs and tables, sufficient distance from computer screen)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Open office with sharing workspace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have a private workspace/office	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What makes an interesting job? (student)

**Thank you for completing this survey!**

**We are also recruiting participants over the age of 25, who are currently in full-time employment, or had been in full-time employment within the last 12 months. If you know anyone who fits the criteria (even your parents), please pass on the information about this survey (link below) and invite them to complete it as well. Your help is very much appreciated !**

**The link to the survey for working adult participants is:**

**[REDACTED]**

18. If you would like to receive a summary of your personality profile, please enter your preferred contact email below

Appendix G: Recruitment Poster

# What Makes an Interesting Job?

Job Characteristics Preference and Personality amongst Undergraduates

What's important for you when you look for a job?



For students



**Contact information**

**WHY?** This research project is designed to investigate what job characteristics attract students when applying for a job, and how their preferences for particular job characteristics are influenced by their personality. The study aims is to investigate recent changes in such preferences and to compare them with those currently in the workforce.

**WHO?** **Students studying a Bachelor of Psychological Science or Honours (all year levels) are invited!** Year 1 students can participate through the Research Participation System for course credits. **We are also inviting participant who are over the age of 25 years old, currently in full-time employment, or had been in full-time employment within the last 12 months. Please invite anyone who might be interested!**

**WHAT?** You are being invited to complete a 15-20 minute online survey. The online survey consist of a personality questionnaire and a list of job characteristics that you need to rate in terms of their importance. **Once you completed the survey, you can request for a brief summary of your personality profile!**



# PERSONALITY AND INDIVIDUAL DIFFERENCES

The Official Journal of the International Society for the Study of Individual Differences (ISSID)

## AUTHOR INFORMATION PACK

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ISSN: 0191-8869

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*Personality and Individual Differences* is primarily devoted to the publication of articles (experimental, correlational, theoretical, expository/review) which enhance our understanding of the structure of personality and other forms of individual differences, the processes which cause these individual differences to emerge, and their practical applications. Accessible methodological contributions are also welcome. The Editors invite papers that focus on the genetic, biological, and environmental foundations of individual differences, and possible interaction effects. While we recognize the importance of questionnaires for the measurement of individual differences, we encourage their link to experimental and behavioural measures. Ultimately the editors of PAID view human beings as bio-social organisms and that work on individual differences can be most fruitfully pursued by attending to both these aspects of our nature.

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