THE DETERMINANTS OF PUBLIC OFFICIALS’ JOB SATISFACTION – THE CASE OF KOREAN PUBLIC OFFICIALS IN THE CADAstral ADMINISTRATION

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INTRODUCTION

Job satisfaction is an emotional reaction to an employee’s work situation. This can be defined as an overall impression about one’s job in terms of specific aspects of the job (e.g., compensation, autonomy, colleagues) and it can be connected with specific results, such as productivity. Recently, public sector in Korea has undergone drastic organizational restructuring process. With government officials, satisfaction with their jobs may have strong implication for improving the quality of government services. Especially, cadastral worker’s satisfaction with his or her job may have a direct impact on the quality of services given to citizen. It is crucial for policy makers to measure the level of cadastral workers’ job satisfaction exactly in order to improve the quality of cadastral services given to citizen.

Therefore, the primary purpose of this paper is to develop and test multivariate model employing theoretically and conceptually relevant predictors of the cadastral worker’s job satisfaction.

OVERVIEW OF THEORY AND LITERATURE

Scientists generally pay attention to two competing sources of workers’ job satisfaction.

Demographic variables

The most important demographic variable that receives huge attention in job satisfaction research is sex. A number of empirical studies on job satisfaction have suggested that female workers have lower level of job satisfaction than their male counterparts because male officials dominate most of the public organizations.

Another common demographic variable studied is educational level. Most of the researches on the relationship between education level and job satisfaction yield consistent findings. Especially Griffin, Dunbar & McGill (1978) found that workers with higher educational level would tend to be more satisfied with their job than workers with lower educational level.

The third commonly identified variable in the research on demographic characteristics is age. Worker’s age has been found to have a negative impact on worker’s job satisfaction (Buzawa, 1984). This means that younger workers are more satisfied with their jobs than their senior counterparts.

The fourth and final variable is the job assignment of a public official. Public officials have many different interests, and these are sometimes satisfied on the job. However,
the more public officials find that they can fulfill their interests while on the job, the more satisfied they will be with those jobs. For example, a recent study results showed that university graduates were more satisfied with their jobs when these were consistent with their university majors than when these fell outside their fields of interest (Vandenberg & Lance, 1992).

**Work environment variables**

Herzberg (1959; 1966) developed two-factor theory of job satisfaction: “motivation” and “hygiene”. According to Herzberg’s theory, if handled properly, hygiene issues cannot motivate workers but can minimize dissatisfaction. Hygiene factors include company policies, supervision, salary, interpersonal relations and working conditions. They are variables related to the worker’s environment. By contrast, a worker’s job satisfaction was influenced by factors associated with the work itself or by outcomes directly derived from it such as the nature of their jobs, achievement in the work, promotion opportunities, and chances for personal growth and recognition. Because such factors were associated with high levels of job satisfaction, Herzberg referred them as ‘motivation factors”.

Hackman and Oldham (1975) proposed five “core” dimensions for evaluating the immediate work environment constituting the Job Diagnostic Survey UDS. These core dimensions turned out to be associated significantly with job satisfaction and a high sense of workers’ motivation. That is, the work environment source consisted of five dimensions, namely those of skill variety, task identity, task significance, autonomy and feedback (Reiner, & Zhao, 1999).

The most important characteristic that receives huge attention in Hackman and Oldham’s study is the meaningfulness of the work that means to what extent the individual perceives the work as significant and important. Job meaningfulness can be defined as the product of three dimensions: skill variety (activities that challenge skills and abilities); task identity (the extent to which the job requires completion of a “whole”, identifiable peace of work); task significance (how substantially the job has impacts on other people’s lives).

**HYPOTHESIS**

**Demographic Variables**

Four demographic variables are proposed for the job satisfaction model, i.e., sex, educational level, age, and the job assignment.

*The Sex of Worker*
Hypothesis 1 is: the sex of a worker will have a negative effect on job satisfaction. The sex of worker has turned out to be negatively correlated with job satisfaction (Buzawa, 1984).

*The Level of Education*
Hypothesis 2 is: the level of education will have a positive impact on job satisfaction. The level of education has been found to influence job satisfaction positively (Jayaratne, 1993; Burk, 1985; Crewson, 1997).
The Age of Worker
Hypothesis 3 is: the age of a worker will have a negative effect on job satisfaction. The age of a worker was expected to have a negative effect on job satisfaction (Buzawa, 1984).

The Job Assignment
Hypothesis 4 is: the job assignment of a worker will have a positive effect on job satisfaction. That means that the more workers find that they can fulfill their interests while on the job, the more satisfied they are with their jobs.

Work Environment Variables

Five work environmental variables are proposed for cadastral workers’ job satisfaction model, i.e., skill variety, task identity, task significance, autonomy, and feedback from the job itself.

Skill Variety
Hypothesis 5 is: the skill variety will have a positive effect on job satisfaction. That is, this means that performing a variety of tasks is positively correlated with the level of job satisfaction.

Task Identity
Hypothesis 6 is: the task identity will have a positive effect on cadastral official’s job satisfaction. This suggests that the higher the degree to which the job requires completion of a “whole” and identifiable piece of work, the higher the level of worker’s job satisfaction he or she gets from job.

Task Significance
Hypothesis 7 is: task significance will have a positive effect on cadastral worker’s job satisfaction. This implies that the higher the degree to which the job has a substantial influence on the lives or work of other people, the higher the level of worker’s job satisfaction.

Autonomy
Hypothesis 8 is: autonomy will have a positive impact on job satisfaction. This means that the higher the degree to which the job provides substantial freedom, independence and discretion of the worker in scheduling the work and in determining the procedures to be used in carrying it out, the higher the level of the worker’s job satisfaction he or she gets from job.

Feedback from the Job Itself
Hypothesis 9 is: feedback from the job itself will have a strong positive influence on cadastral worker’s job satisfaction. The feedback turned out to be the strongest predictor of job satisfaction (Reiner and Zhao, 1999).
METHODOLOGY

Sampling

This study is based on the results of interviews of 300 public officials who are in the cadastral administration. Interviews were conducted from September 1, 2000 to November 27, 2000. The systemic sampling with random starts was used to collect the data. The sampling interval was 100 and sampling ratio was 1/100. The questionnaire included four demographic questions. Response to these questions shows that 75% of cadastral workers were male. More than one third of the government employee in our sample have bachelor’s degree. The mean age of study subjects was 39.1 with a range from 27 to 57.

Procedures

Data were collected through an interview questionnaire administered in subject’s office. The interview questionnaire was structured in format and required approximately 15 minutes to administer.

MEASURES

Independent variables

The following independent variables were examined.

_The sex of worker_

The sex of worker was measured from public official’s self-identification as male or female. We coded ‘0’ for female, and ‘1’ for male.

_The level of education_

To measure the level of education, we used the following scales. ‘6’ for primary school graduate, ‘9’ for middle school graduate, ‘12’ for high school graduate, ‘12’ for community college graduate, and ‘16’ for college graduate and above.

_The age of public official_

The age of public official was measured in years.

_Type of job assignment_

Public officials were asked to identify their job assignment as either cadastral jobs or non-cadastral jobs. We coded ‘0’ for non-cadastral jobs, and ‘1’ for cadastral jobs.

_The five work environment variables_

To measure each of five work environment variables, we used a 5-point Likert scale.

Dependent variables

The following dependent variables were examined to assess the level of job satisfaction.
Satisfaction with Job
To measure the level of satisfaction with employee’s job, we used 10 work characteristics. Then, we asked following questions as to each item.
“How satisfied or dissatisfied are you with following indicators? Which number comes closest to showing how satisfied or dissatisfied you feel?”

\[
\begin{array}{cccc}
\text{complete satisfaction} & 5 & 4 & 3 \\
\text{dissatisfaction} & 2 & 1 \\
\end{array}
\]

To measure the general level of satisfaction with job, scores of each indicator were summed up.

Satisfaction with supervisors
To assess the level of satisfaction with supervisors, we used 10 characteristics. Then we asked following questions as to each item.
“How satisfied or dissatisfied are you with following indicators? Which number comes closest showing how satisfied or dissatisfied you feel?”

\[
\begin{array}{cccc}
\text{complete satisfaction} & 5 & 4 & 3 \\
\text{dissatisfaction} & 2 & 1 \\
\end{array}
\]

To measure the general level of satisfaction with supervisors, scores of each indicator were summed up.

Satisfaction with colleagues
To measure satisfaction with colleagues, we used 10 characteristics. Then, we asked following questions as to each item.
“How satisfied or dissatisfied are you with following indicators? Which number comes closest showing how satisfied or dissatisfied you feel?”

\[
\begin{array}{cccc}
\text{complete satisfaction} & 5 & 4 & 3 \\
\text{dissatisfaction} & 2 & 1 \\
\end{array}
\]

To measure the general level of satisfaction with colleagues, scores of each indicator were summed up.

ANALYSIS
To examine effects of both demographic variables and work environment variables on cadastral workers’ job satisfaction, multiple regression analysis was used. And standard regression coefficients were used rather than unstandardized regression coefficients; since most of the measures did mot have natural matrix.
RESULTS

Satisfaction with Job

A test of the full model produced an R-square of 0.59 for satisfaction with job, indicating that over 59% of the variance in satisfaction with job was accounted for by the nine variables in the model (Table 1).

Eight of the nine hypothesized relations between independent variables and satisfaction with job were supported. The only one variable that did not conform to hypothesized relations was the level of education. All standardized parameter estimates for the full model are presented in Table 1.

In the order of their magnitude, skill variety was the best predictor of public officials’ job satisfaction ($\beta = 0.61$). This suggests that performing a variety of tasks is significantly correlated with public officials’ job satisfaction.

The age of a worker was the second significant predictor of job satisfaction ($\beta = 0.25$). However, this variable did not show the expected negative relation with job satisfaction.

The job assignment is the third significant predictor of public officials job satisfaction ($\beta = 0.24$). This indicates that public officials in cadastral jobs in the survey reported higher levels of job satisfaction than their counterparts in non-cadastral jobs. Task significance is the fourth important predictor of satisfaction with work ($\beta = 0.20$). This result shows that there is statistically significant relationship between the degree of task significance and the level of job satisfaction public officials get from their work.

Autonomy is the fifth significant predictor of job satisfaction ($\beta = 0.19$). As expected, autonomy has a significant positive effect on public officials job satisfaction. This means that the higher the degree to which the job provides substantial freedom, independence and discretion of the worker in scheduling the work and determining the procedures to be used in carrying out, the higher the level of the worker’s job satisfaction he or she gets from job.

As expected, task identity, sex and feedback have significant positive impacts on the level of public officials job satisfaction.

<table>
<thead>
<tr>
<th>Independent Variables</th>
<th>B</th>
<th>$\beta$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td>0.71</td>
<td>0.10</td>
</tr>
<tr>
<td>Age</td>
<td>0.30</td>
<td>0.25</td>
</tr>
<tr>
<td>Level of Education</td>
<td>0.24</td>
<td>0.02</td>
</tr>
<tr>
<td>Job Assignment</td>
<td>3.28</td>
<td>0.24</td>
</tr>
<tr>
<td>Skill variety</td>
<td>4.11</td>
<td>0.61</td>
</tr>
<tr>
<td>Task Identity</td>
<td>0.18</td>
<td>0.18</td>
</tr>
<tr>
<td>Task Significance</td>
<td>1.58</td>
<td>0.20</td>
</tr>
<tr>
<td>Autonomy</td>
<td>1.24</td>
<td>0.19</td>
</tr>
<tr>
<td>Feedback</td>
<td>0.45</td>
<td>0.10</td>
</tr>
</tbody>
</table>

$R^2 = 0.25$  $P = 0.05$  $F = 26.7$
Satisfaction with Supervisors

Table 2 shows that eight of the nine variables are statistically significant predictors of public officials’ satisfaction with their supervisors, accounting for more than half of the variance ($R^2 = 0.51$). The only one variable did not conform to hypothesized relations was the level of education. All standardized parameter estimates for the model are presented in Table 2. As expected, feedback from the job itself was the best predictor of public officials’ satisfaction with their supervisors ($\beta = 0.34$). This means that the amounts of feedback public officials receive from their supervisors have significant positive impacts on the level of satisfaction with supervisors.

The job assignment is the second significant predictor of public officials’ satisfaction with their supervisors ($\beta = 0.22$). This indicates that officials in cadastral jobs tend to be more satisfied with their supervisors than their counterparts in non-cadastral jobs. The sex is the third important predictor of satisfaction with supervisors ($\beta = 0.20$). As expected, this variable has a strong positive impact on satisfaction with supervisor.

<table>
<thead>
<tr>
<th>Independent Variables</th>
<th>B</th>
<th>$\beta$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td>11.7</td>
<td>0.20</td>
</tr>
<tr>
<td>Age</td>
<td>0.15</td>
<td>0.12</td>
</tr>
<tr>
<td>Level of Education</td>
<td>0.12</td>
<td>0.01</td>
</tr>
<tr>
<td>Job Assignment</td>
<td>2.11</td>
<td>0.22</td>
</tr>
<tr>
<td>Skill variety</td>
<td>0.99</td>
<td>0.15</td>
</tr>
<tr>
<td>Task Identity</td>
<td>1.17</td>
<td>0.14</td>
</tr>
<tr>
<td>Task Significance</td>
<td>0.85</td>
<td>0.11</td>
</tr>
<tr>
<td>Autonomy</td>
<td>1.82</td>
<td>0.18</td>
</tr>
<tr>
<td>Feedback</td>
<td>3.42</td>
<td>0.34</td>
</tr>
</tbody>
</table>

$R^2 = 0.51$  $P = 0.05$  $F = 17.2$

The autonomy variable turned out to be a strong predictor of satisfaction with supervisors ($\beta = 0.18$). This results shows that there is a statistically significant relationship between autonomy and satisfaction with supervisors. As expected, such variables as skill variety, task identity, age, and task significance have significant positive influences on public officials satisfaction with their supervisors.

Satisfaction with Colleagues

A test of the model produced an $R$=square of 0.56 for the dependent variable, satisfaction with colleagues, indicating that over 56% of the variance was explained by the nine variables in the model (Table 3).
Table 3. Regression Analysis: Satisfaction with Colleagues as Dependent Variable

<table>
<thead>
<tr>
<th>Independent Variables</th>
<th>B</th>
<th>β</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td>5.75</td>
<td>0.11</td>
</tr>
<tr>
<td>Age</td>
<td>0.24</td>
<td>0.14</td>
</tr>
<tr>
<td>Level of Education</td>
<td>2.47</td>
<td>0.15</td>
</tr>
<tr>
<td>Job Assignment</td>
<td>2.17</td>
<td>0.19</td>
</tr>
<tr>
<td>Skill variety</td>
<td>0.33</td>
<td>0.03</td>
</tr>
<tr>
<td>Task Identity</td>
<td>1.12</td>
<td>0.11</td>
</tr>
<tr>
<td>Task Significance</td>
<td>2.31</td>
<td>0.20</td>
</tr>
<tr>
<td>Autonomy</td>
<td>3.31</td>
<td>0.33</td>
</tr>
<tr>
<td>Feedback</td>
<td>1.75</td>
<td>0.17</td>
</tr>
</tbody>
</table>

\[ R^2 = 0.56 \quad P = 0.05 \quad F = 8.45 \]

Eight of the nine hypothesized relations between predictor variables and satisfaction with colleagues were supported. The only one variable that did not conform to hypothesized relations was the skill variety. All beta coefficients for the model are presented in Table 3. As expected, autonomy turned out to be the strongest predictor of public officials’ satisfaction with colleagues (β = 0.33). That is, this variable has a significant positive impact on satisfaction with colleagues.

Task significance was the second significant predictor of satisfaction with colleagues (β = 0.20). This means that there is a statistically significant relationship between the degree of task significance and the level of satisfaction with colleagues. The job assignment turned out to be a strong predictor of satisfaction with colleagues (β = 0.19). This shows that public workers in cadastral jobs tend to be more satisfied with their colleagues than their counterparts in non-cadastral jobs.

Feedback from job itself was the third significant predictor of satisfaction with colleagues (β = 0.17). This implies that the amounts of feedback public officials receive from their colleagues have significant positive effects on the level of satisfaction with colleagues. As expected, the level of education turned out to be a significant predictor of public officials’ satisfaction with their colleagues (β = 0.15). This shows that the level of education have a significant positive impact on the level of satisfaction with colleagues. Such variables as age, task identity, and sex have strong positive impacts on satisfaction with colleagues.

**DISCUSSION AND CONCLUSION**

To examine effects of both demographic variables and work environment variables on cadastral workers’ job satisfaction, multiple regression analysis was used. Study results showed that public officials’ overall satisfaction with their job, colleagues, and supervisors was relatively high.

Eight of the nine hypothesized relations between independent variables and satisfaction with job were supported. The only one variable that did not conform to hypothesized relations was the level of education. Skill variety turned out to be the best predictor of public officials’ job satisfaction.

Our study results showed that eight of the nine variables were statistically significant predictors of public officials’ satisfaction with their supervisors, accounting for more
than half of the variance ($R^2=0.51$). The only one variable did not conform to hypothesized relation was the level of education. As expected, feedback from the job itself was the best predictor of public officials’ satisfaction with their supervisor. This means that the amounts of feedback public officials get from their supervisors have significant positive impacts on the level of satisfaction with supervisors. A test of the model produced an R-square of 0.56 for satisfaction with colleagues, indicating that over 56% of the variance was explained by the nine variables in the model. Eight of the nine hypothesized relations between predictor variables and satisfaction with colleagues were supported. The only one variable that did not conform to hypothesized relations was the skill variety. As expected, autonomy turned out to be the strongest predictor of public officials’ satisfaction with colleagues.

Up to now, we have reviewed factors influencing public officials’ job satisfaction. In view of the negative consequences of job dissatisfaction, it makes sense to consider ways of raising satisfaction and preventing job dissatisfaction. Although public officials’ job satisfaction might not explain all aspects of their job performances, it is crucial to try to increase satisfaction if for no other reason than to make them happy.

The model we have developed and tested here can be used to promote cadastral workers’ the job satisfaction in Korea. However, this study, which was based on cross sectional data, has some limitations in predicting public officials’ job satisfaction. Therefore, longitudinal studies should be made to increase the predictive power of the model among cadastral workers in Korea.

REFERENCES


Herzberg, F. (1976). The managerial choice: To be efficient and to be human. Homewood, IL: Dow Jones-Irwin.


Marcel Dekker, Inc.

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