

## **PGPI**

# Práctica 6 Selección de personal

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Granada, Noviembre de 2019

#### 1- Position offered

Our company is destined to carry out projects in the healthy field. Our main objective is to improve the quality and health services through new technologies.

We are currently developing a project in Granada, the implementation and exploitation of a software program integrated into a current patient management system of a hospital that will enable the complete management of the IT in it. We call it the Restructuring and Improvement Plan of medical management.

We are looking for an Information Security Engineer

#### Description

- Maintain and administer applications, services, and devices that aid in the work of Information Security.
- Install, configure and upgrade security software and hardware.
- Determine security violations and inefficiencies by organizing and conducting tests and "ethical hacks" of the existing security architecture.
- Investigate and document Security Incidents.
- Support vulnerability management process (identifying new vulnerabilities, research and analysis and response).
- Automating and collecting security metrics.
- Test security solutions using industry standard analysis criteria.
- Respond to information security issues.

#### Requirements

- Excellent command of English and Spanish, other language of advantage
- 5 years of IT experience, with at least 3 years' experience in information security.
- Bachelor's degree in Electrical/Electronic/Communication/Computer Engineering,
   Computer Science, information technology, or related fields.
- Has worked with Info Security standards.
- Knowledge of DLP solutions and its applications in an enterprise.
- Experience with vulnerability scanning and vulnerability management.
- Understanding of web filtering solutions and its applications.
- Knowledge in administering and securing Microsoft and Linux systems.
- Good understanding and fare experience of various DBMS platforms, e.g.
   MySQL/MSSQL.
- Good understanding of network and web related protocols (e.g., TCP/IP, UDP, IPSEC, HTTP, HTTPS, routing protocols, etc.)
- Good understanding of sub-netting, DNS, encryption technologies and standards, VPNs, VLANs, VoIP and other network concepts.

# What's awaiting you?

- 30K annual gross fixed salary Opportunity to develop your talent with a goaloriented team
- You will have a mentor within your team that will guide and teach you on the job.
- A full-time indefinite contract.
- Trainings and conferences paid when applicable.
- A modern technology stacks.
- An open, dynamic, and flexible corporate culture. Flexible working hours within a given frame and home office.
- Participation in company events in our international offices.
- Perks such as flexible benefits plan, company paid Private Health Insurance, drinks and snacks in the kitchen area, and more.

#### 2- Selection criteria

In order to know the skills of each of the candidates, we proceed to design and develop a form based on the selection criteria specified in the previous section.

Requirement	Level	Requirement Weight
- Excellent use of English and Spanish, other language of	Language Level	10%
advantage		
- Years of IT experience, with	☐ Less than 1 years	10%
more years' experience in	☐ Less than 2 years	
information security.	☐ Less than 5 years	
	☐ Greater than 3 years	
Worked with Info Security standards	☐ Less than 1 years	15%
	☐ Less than 2 years	
	☐ Less than 5 years	
	☐ Greater than 3 years	
Knowledge of networks and network	□ None	15%
services	☐ Low (I know network protocols and basic	
	configuration)	

	<ul><li>Medium (I know how network protocol eff</li><li>High (I know network organize an efficient</li></ul>		
Linux system domain	<ul> <li>□ None</li> <li>□ Low (Basic Comman</li> <li>□ Medium (Administration</li> <li>□ High (Service setting management)</li> </ul>	ation of services, users)	5%
Knowledge of DLP solutions	<ul><li>□ None</li><li>□ Low</li><li>□ Medium</li><li>□ High</li></ul>		15%
Experience of various DBMS platforms	DBMS platform name	Experiences years	10%
Education	Certificate Title	Degree	20%

#### 3- Interview

The interview consists on a set of questions, the first part of the questions will be related to their personality and their way of thinking, these series of questions will be asked and the degree of satisfaction of the evaluator will be marked depending on the response and impression obtained from the candidate. The evaluator will evaluate between 0 and 10 each question, and there will be a "Weight" for each question, which will dependent on the importance of the question.

The questions to be asked are the following (the main ones, then some more may be asked depending on the candidate's answers).

Question	Value		Question Weight
Why do you want to work in this field?	0	0	15%
· ·	0	1	
	0	2	
	0	3	
	0	4	
	0	5	
	0	6	
	0	7	
	0	8	
	0	9	
	0	10	
Where did you work before? Why did you leave (if he had a job	0	0	20%
before)? What have you learned from your previous work (if he	0	1	
had a job before)?	0	2	
	0	3	
	0	4	
	0	5	
	0	6	
	0	7	
	0	8	
	0	9	
	0	10	
What work experience do you have?	0	0	30%
	0	1	
	0	2	
	0	3	
	0	4	
	0	5	
	0	6	

	<ul><li>7</li><li>8</li><li>9</li><li>10</li></ul>	
Why do you want to work with us?	<ul> <li>0</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>8</li> <li>9</li> <li>10</li> </ul>	5%
Are you satisfied with the salary?	<ul> <li>0</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>8</li> <li>9</li> <li>10</li> </ul>	10%
if you get a new job with higher salary than what we offer you, will you stay with us?	<ul> <li>0</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>8</li> <li>9</li> <li>10</li> </ul>	5%
Why do you like the information technology field? What do you like the most about it?	<ul><li>0</li><li>0</li><li>1</li></ul>	5%

	0	2	
	0	3	
	0	4	
	0	5	
	0	6	
	0	7	
	0	8	
	0	9	
	0	10	
Do you have a problem with long work-related trips?	0	0	10%
	0	1	
	0	2	
	0	3	
	0	4	
	0	5	
	0	6	
	0	7	
	0	8	
	0	9	
	0	10	

# 4- Simulation and evaluation of candidates

A simulation will be carried out in which 3 candidates are presented and carry out the selection process.

Requirement	Candidate 1	Candidate 2	Candidate 3	Degree	Final degree
Excellent use of English and Spanish, other language of advantage	English, advanced Spanish, advanced	English Low Spanish Advanced	English Low Spanish Advanced Arabic Advanced	Cand1=9*0.1 Cand2=7*0.1 Cand3=8*0.1	Cand1=0.9 Cand2=0.7 Cand3=0.8
Years of IT experience, with more years' experience in information security.	Less than 2 years	Less than5 years	Less than 2 years	Cand1=6*0.1 Cand2=9*0.1 Cand3=6*0.1	Cand1=0.6 Cand2=0.9 Cand3=0.6
Worked with Info Security standards	Less than 2 years	Less than 2 years	Less than 2 years	Cand1=6*0.15 Cand2=6*0.15	Cand1=0.9 Cand2=0.9 Cand3=0.9

				Cand3=6*0.15	
Knowledge of networks and network services	None	High	Low	Cand1=0*0.15 Cand2=10*0.15 Cand3=3*0.15	Cand1=0 Cand2=1.5 Cand3=0.45
Linux system domain	High	High	High	Cand1=10*0.05 Cand2=10*0.05 Cand3=10*0.05	Cand1=0.5 Cand2=0.5 Cand3=0.5
Knowledge of DLP solutions	None	Medium	Low	Cand1=0*0.15 Cand2=6*0.15 Cand3=3*0.15	Cand1=0 Cand2=0.9 Cand3=0.45
Experience of various DBMS platforms	SQL server High level MongoDB High level	SQL server High level	SQL server High Level	Cand1=9*0.1 Cand2=7*0.1 Cand3=7*0.1	Cand1=0.9 Cand2=0.7 Cand3=0.7
Education	Information technology engineering Master	Computer science BA	Computer science Master	Cand1=9*0.2 Cand2=7*0.2 Cand3=9*0.2	Cand1=1.8 Cand2=1.4 Cand3=1.8
					Cand1=5.6 Cand2=7.5 Cand3=6.2

Question	Candidate 1	Candidate 2	Candidate 3
Why do you want to work in this field?	9*0.15=1.35	10*0.15=1.5	9*0.15=1.35
Where did you work before? Why did you leave (if he had a job before)? What have you learned from your previous work (if he had a job before)?	8*0.2=1.6	8*0.2=1.6	6*0.2=1.2
What work experience do you have?	9*0.3=2.7	9*0.3=2.7	8*0.3=2.4
Why do you want to work with us?	6*0.05=0.3	9*0.05=0.45	8*0.05=0.4
Are you satisfied with the salary?	10*0.1=1	10*0.1=1	10*0.1=1

if you get a new job with higher salary than what we offer you, will you stay with us?	8*0.05=0.4	9*0.05=0.45	9*0.05=0.45
Why do you like the information technology field? What do you like the most about it?	8*0.05=0.4	8*0.05=0.4	9*0.05=0.45
Do you have a problem with long work-related trips?	9*0.1=0.9	9*0.1=0.9	9*0.1=0.9
Final degree	8.65	9	8.15

After obtaining the results of the candidates, we proceed to evaluate them based on the following:

• Knowledge and experience form: 70%

• Interview: 30%

Finally, we can calculate the result by:

Evaluations	Candidate 1	Candidate 2	Candidate 3
Knowledge and experience form	5.6*0.7=3.92	7.5*0.7=5.25	6.2*0.7=4.34
Interview	8.65*0.3=2.595	9*0.3=2.7	8.15*0.3=2.445
Final degree	6.525	7.95	6.785