

## **WEB 3.0 engineer:**

WEB 3.0: secure compared to 2.0

### **Role:**

- Analysing the company's needs
- Interface development
- Carries out the tests
- Deploying the application
- Managing the infrastructure
- Be available to deal with bugs etc.

### **Hard skills:**

- Mastery of web 2.0 and 3.0 languages
- Basic project management skills

### **Soft skills:**

- Open-mindedness
- Communication
- Adaptability
- Autonomous

### **Remuneration:**

- 50000-175000€/year

## **Software engineer:**

### **Hard skills:**

- Mastery of programming languages
- Mastery of development tools (git, ide)
- Algo competence
- Bone knowledge
- Write efficient and maintainable code

### **Sectors of activity:**

Info, telecommunication, health care, automotive etc.

### **Soft skills:**

- Communication
- Teamwork and leadership
- Time management
- Learnign skills
- Problem solving

### **Responsibility:**

- Design
- Realization
- Maintenance
- Project management: human resources, definition of the need
- R&D: adapting with new technologies
- User support

### **Type of business:**

All types of companies: start-ups, SMEs, ESN

### **Executive:**

Depending on the evolution, the position held between only project management or only software development.

## **WEB Developer:**

### **Responsibility:**

Creating websites, working with designers, optimising website performance, accounting with all devices, communicating

### **Description:**

Create and maintain websites, wide range of languages, ensure it works on different devices and browsers

Several types: Frontend (HTML, CSS, JAVASCRIPT), Backend (PHP, RUBY, Python) and Fullstack which do both

### **Hard skills:**

- Mastery of programming languages
- BDD mastery
- Versioning system (git)
- Project management methods (Agile/SCRUM)
- Website security and best development practices

### **Soft skills:**

- Teamwork
- Adaptability
- Project management
- Curiosity

### **Remuneration:**

- Junior: Between €25,000 and €45,000 per year
- Senior: Between €45,000 and €70,000 per year

### **Advantages:**

- Innovative area
- Wide range of sectors of activity
- Full remote capability

### **Career development:**

- Specialisation in one technology
- Team management
- Business start-ups

## **Video game engineer:**

### **Description:**

- Developing and maintaining video games
- Working in small studios at large companies

### **Tasks:**

- IT needs analysis
- Coordinate and frame the detailed writing of the programme
- Tests to be carried out
- Bug fixes

### **Soft skills:**

- Communication
- Working in a team
- Versatile
- Time management
- Persuasiveness

### **Hard skills:**

- Development language (C++, C#, Java, etc.)
- Graphic programming (shaders)
- Team development tools
- Network programming for connected games
- Design method
- Project management

### **Remuneration:**

- Junior: 3100€ gross per month
- Senior: 6000€ gross per month

## **Systems engineer:**

### **Description:**

- Design and implementation of IT infrastructure
- Maintenance and troubleshooting of systems
- Ensuring the security of the company
- Technology watch to enable innovative solutions

### **Skills:**

- Mastery of different programming languages
- Knowledge of operating systems
- Good knowledge of computer security
- Ability to understand and use new technologies

### **Types of companies:**

Companies of all sizes in many sectors: IT, telecommunications, industry, services, etc.

### **Possibility of further development:**

- Senior Systems Engineer
- Project Manager
- Technical Director

**Remuneration:** €35,000 to €60,000 per year

## **Cybersecurity Engineer:**

### **Description:**

- Detecting and analysing cyber attacks
- To guide the IS teams on the work of securing the IS network
- Keeping a constant watch
- Follow up on subordinates
- Sectors of activity: banking, medical, government and military, private sector

### **Remuneration:**

- 36,000 to €84,000 per year

### **Development prospects:**

- Audit or consultancy firm
- Freelance
- CISO (Information Systems Security Officer)

### **Skills:**

- Knowledge of information and communication technologies
- Problem solving and questioning skills on the IS
- Communication, collaboration with colleagues

## **Database engineer:**

Responsible for the design, implementation and maintenance of a database

Able to work with development teams

### **Responsibility:**

- Design, implementation and maintenance of a database
- Optimisation of database performance
- Securing databases
- Collaboration with development teams

### **Hard skills:**

- Knowledge of database management
- Designing a database
- Ability to solve complex problems

### **Soft skills:**

- Creative and innovative
- Listening to the customer
- Analytical mind and attention to detail
- Curiosity and thirst for knowledge

### **Type of business:**

- Technology and software
- Transport, health, etc...
- Financial services
- E-Commerce
- Telecommunications

## **Data Scientist:**

Analyse, process and derive trends from large amounts of data to derive strategies for businesses

### Sectors of activity:

Medical, military, agri-food, autonomous car

### Skills:

- Strong programming skills (Python, C++)
- Expertise in database management
- Applied mathematics
- Communication
- Project management

### Remuneration:

45 000 to 120 000€ gross per year

### Developments:

Chief Data Scientist



## **IT Project Manager:**

### **Description:**

Definition of all technical phases of the project

Leading, monitoring and coordinating between the different teams

### **Skills:**

- Hard skills in relation to projects
- Mastery of modelling methodologies and tools
- Emotional intelligence
- Pedagogy

### **Remuneration:**

- 35,000 to €50,000 per year

### **Future developments:**

- Technical course
- Functional pathway
- Project management course
- Managerial career path

## **Business Engineer:**

Responsible for guiding and monitoring projects

Takes charge of all aspects of the project (quotation, invoicing, needs analysis, etc.)

### **Sectors of activity:**

- All types of businesses
- Possibility of specialising in a particular sector
- Responsibility:
  - Manage consultant teams
  - Monitoring projects
  - Establishing a relationship of trust with its customers

### **Tasks:**

- Responding to calls for tender
- Analyse customer needs
- Manage and monitor projects
- Analysing projects
- Building customer loyalty

### **Skills:**

- Analyse and translate the client's needs
- Managing your schedule
- Autonomy and team
- Demonstrate versatility (technical and management)

### **Quality:**

- Listening, communication
- Autonomy
- A force of proposal
- Dynamics

### **Career development:**

Sales, marketing, project manager