



## **Information and Interaction department**

### **Healthcare and Privacy solutions team:**

#### **Student researcher**

Position number **RES-0485175**

Location: Haifa

#### Description:

This student position involves working on the Information Privacy and Security group in IBM Research - Haifa. The selected candidate will help develop state-of-the-art technologies for protecting privacy. The team addresses challenges originating from the need to collect, maintain, and use private and sensitive information in the digital and connected world while protecting the privacy of the individual .

#### Requirements:

Candidates must have experience using Java, C, or C++ and be creative thinkers and team players with self-education abilities. Strong problem determination and resolution skills are required. Knowledge in web technology is an advantage.

#### Education:

Fourth semester (or more) B.Sc. student

#### **Student Healthcare Researcher**

Position number **RES-0499424**

Location: Haifa

#### Description:

This student position involves working as a healthcare researcher on the Healthcare and Life Sciences team in IBM Research - Haifa.

#### Requirements:

Candidates must have strong Java development skills and a solid medical background.

#### Education:

Third- or fourth-year MD (medical) student



## **Research Scientist for the BioMedical Informatics group**

Position number **RES-0509091**

This role generates highly novel ideas (theoretical or experimental) in the biomedical informatics discipline and/or invents/designs complex products and/or processes related to clinical decision support. May be involved in engineering these ideas to an advanced state of feasibility by evaluating ideas and plans and participating in their implementation. The full cycle of innovation to delivery is typically a multiple-year effort. Disseminates, internally and externally, the results of such activities through publications, patent disclosures, seminar participation, internal documentation, etc. Functions as an internal consultant in the areas of professional expertise. May direct technically, and/or manage, within the broad mission of the group, activities of other research staff members and technical support persons.

### **Additional comments:**

Multidisciplinary interests, combining information management and biomedical knowledge. Emphasizing, the biological aspects of medicine, including genomic, proteomic and metabolomic aspects.



## **Social Technologies team:**

### **Student Researcher - Web 2,0 and Social Media Technologies**

Position number **RES-0512712**

Location: Haifa

#### Description:

This student position involves working on the Social Technologies team in IBM Research - Haifa, which develops social media technologies for the enterprise and outside the firewall, including tools for mining and analysis of social media information. The team's main focus in recent years has been in social network analysis, expertise location, social search, and recommender systems.

#### Requirements:

Candidates should have excellent programming skills and programming experience from both university courses and a previous programming position. Candidates should be motivated and able to learn new state-of-the-art programming languages and technologies, Creative thinking and the ability to work in a team are required.

#### Education:

Fourth semester or higher towards a B.Sc. in computer science. Excellent grades (average 90+) from the Technion is an advantage. M.Sc. or PhD students have a big advantage.



## **Multimedia team:**

### **Student Software Developer for the Speech Technologies group**

Position number **RES-0529560**

Location: Haifa

#### **Description:**

This position involves working as a student software developer for the Speech Technologies group at IBM Haifa Research Lab. The selected candidate will work full-time during the summer and part-time during the academic year in a very challenging and rewarding environment.

#### **Requirements:**

Candidates must have at least one year of real world programming experience including a good knowledge of Java and a knowledge of C++. Familiarity with signal/speech processing is an advantage.

#### **Education:**

Undergraduate or graduate students in computer science, electrical engineering or a related discipline.

### **Student Researcher for the Speech Technologies group**

Position number **RES-0529562**

Location: Haifa or Tel-Aviv

#### **Description:**

This position involves working as a student researcher for the Speech Technologies group at IBM Haifa Research Lab. The selected candidate will work full-time during the summer and part-time during the academic year in a very challenging and rewarding environment.

#### **Requirements:**

Candidates must have knowledge in signal processing and experience in programming . Experience in machine learning or speech processing or is an advantage.

#### **Education:**

Graduate students or advanced undergraduate students in electrical engineering, computer science or a related discipline.



## **Student Researcher for the Image Analytics Group**

Position number **RES-0537513**

Location: Haifa

### **Description:**

This position involves working as a student researcher for the Image Analytics group at IBM Haifa Research Lab. The selected candidate will work full-time during the summer and part-time during the academic year in a very challenging and rewarding environment.

### **Requirements:**

Candidates must have knowledge in signal processing and experience in programming . Experience in Machine-Learning or Computer-Vision or is an advantage.

### **Education:**

Graduate students or advanced undergraduate students in electrical engineering, computer science or a related discipline.

## **Student Software Developer for the Image Analytics Group**

Position number **RES-0537512**

Location: Haifa

### **Description:**

This position involves working as a student software developer for the Image Analytics Group at IBM Haifa Research Lab. The selected candidate will work full-time during the summer and part-time during the academic year in a very challenging and rewarding environment.

### **Requirements:**

Candidates must have at least one year of real world programming experience including a good knowledge of Java and C++. Familiarity with Computer-Vision/Image-Processing/Computer-Graphics is an advantage.

### **Education:**

Undergraduate or graduate students in computer science, electrical engineering or a related discipline.



## **Student for Video & GIS Analytics team**

Position number RES-0542022

Project scope: applications of video streaming and video analytics.

Student profile requested:

Background:

- computer science or electrical-engineering

Technical skills:

- Strong programming skills, preferably in JAVA (and/or J2EE)
- Advantage: Good knowledge of multimedia platforms programming (e.g., Microsoft direct show filter programming)

General requirements:

Ability to work both independently as well as in teams



## **Systems Technologies and Services department**

### **System Performance and Quality Analysis team:**

#### **Student Systems Researcher**

Position number RES-0528471

Location: Haifa

#### Description:

These student positions involve working in the Systems Technologies and Services Department of IBM Research - Haifa on research and development in leading-edge system technologies. More details about the department can be seen here: <http://www.haifa.ibm.com/dept/stt/index.html>

#### Requirements:

Candidates must be fast learners with algorithmic skills and Java programming experience.

#### Education:

3rd semester and above, computer science

### **Cloud Platforms team:**

#### **Student position- Cloud Computing Developer**

Position number RES-0542029

Location: Haifa

The student will be a team member in a project that develops an enterprise level cloud computing framework with optimized resource exploitation, based on a leading open framework. The work will involve self-education, participation in design discussions, implementation and testing.

#### Required skills:

- At least 5th Semester
- Average of 85 or higher
- Excellent Java knowledge and experience
- Experience in development on Linux platform

#### Desired:

- Python knowledge and experience
- KVM knowledge and experience



## **Verification and Analytics department**

### **Emerging Quality and Design Technologies team:**

#### **Student Post-Silicon Validation Researcher**

Position number **RES-0485738**

Location: Haifa

##### Description:

This student position involves working on the Post-Silicon Validation Technologies team in IBM Research - Haifa. We develop state-of-the-art technologies and software tools used in the development of leading-edge hardware systems including high-end servers and some of the world's fastest supercomputers. We handle some of the toughest technical and algorithmic problems involved in this development, and we are now looking for outstanding undergraduate and graduate students to join our teams.

##### Requirements:

Candidates must have strong problem analysis and solving skills and be good team players. Strong mathematical skills, knowledge of computer science theory, and/or an algorithmic background, especially in distributed algorithms are all advantages.

##### Education:

Excellent students studying toward a B.Sc. or M.Sc. in computer science, computer engineering, electrical engineering, or related discipline. Outstanding candidates in an early stage of their studies (third semester or above) will also be considered.



## **Analytics team:**

### **Student Constraint Satisfaction Researcher**

Position number **RES-0519580**

Location: Haifa

#### **Description:**

This position involves developing novel solutions for constraint satisfaction problems (CSPs) using state-of-the-art CSP solving engines. Work involves development of new algorithms and heuristics for enhanced solving, research in the realm of CSP and related technologies, applying techniques from the world of CSP to a variety of applications, as well as learning new domains and studying their suitability for CSP technologies.

#### **Requirements:**

Candidates must have a strong background in computer science including algorithms, particularly in graph theory, strong theoretical capabilities, and a good knowledge of software engineering. A background in CSP or in optimization is an advantage, but not an essential requirement. Experience in object-oriented programming is an advantage.

#### **Education:**

Excellent students studying toward a B.Sc., M.Sc. or Ph.D. in computer science, computer engineering, electrical engineering, or related discipline. Outstanding candidates in an early stage of their studies (third semester or above) will also be considered.