Great Minds
Internship Program 2017
IBM Research - China
Great Minds Internship Program 2017
Jump Start Your Future at IBM Research – China

Introduction

IBM Research - China invites global candidates to apply for the 2017 Great Minds internship program located in Beijing and Shanghai. The Great Minds Program is an annual competitive 2 to 3 months internship. Selected students will have the unique opportunity to work with world-class scientists in an open and cultivating environment.

IBM’s international reputation for world-leading research and innovation excellence attracts scientists from all over the world. Located in the heart of the emerging markets, IBM Research – China (CRL) has been leading research innovation across Industry Solutions, Cloud Computing and Cognitive Technologies for more than two decades, establishing itself as one of the most prestigious and well-recognized research institutes in China.

Currently, CRL is committed to applying cutting-edge technologies to solve key problems across industries, including but not limited to environmental protection, energy and utilities, logistics and supply chain, healthcare, telecommunication, and financial services. Looking to the future, CRL will tap into IBM’s network of global research labs to create an innovation ecosystem of partners from across government, academia, and industry enterprises.

Program Overview

Great minds and great ideas drive innovations. As an industry-leading IT research organization, IBM Research - China has been focusing on accelerating innovative collaborations across IBM’s global labs. We strive to stay relevant to our clients by initiating high market value projects. Our researchers collaborate with partners in academia in far reaching projects to reinvent the technological future with critical innovations.
In keeping with IBM's continuously close relationships with universities, we are seeking the brightest minds and the hottest ideas worldwide. The Great Minds Program intends to offer candidates valuable resources and industry insights. We encourage candidates to become ambassadors of the sciences and share their experiences with their local departments and institutions.

IBM Research – China is focusing on the following areas of research inquiries. We currently offer internship positions in:

Innovative Industry Solutions and Services

Cloud Computing and Systems

Cognitive Computing

**Eligibility**

The program is open to all graduate students (preferably PhD candidates) from accredited universities, candidates should be in their second year of graduate studies. All majors are welcomed with preferences in the following areas of studies. Please refer to our JD listing for details about our current research areas and internship requirements.

- Computer Science
- Electrical Engineering
- Mathematics and statistics
- Software Engineering
- Industrial Engineering
- Service Science

* IBM is an equal-opportunity employer. We welcome candidates from all backgrounds to apply. We would especially like to encourage qualified women scientists to participate and apply.
Relocation and Stipend

Interns will be paid a highly competitive stipend compared with other leading companies in China. Additionally, IBM Research - China will provide candidates with corresponding travel and living allowances.

The exact starting time and duration of the internship will be agreed upon with each candidates individually. We will take into account the candidates' academic commitments and the availability of our IBM staffs.

How to apply

You can apply for the Great Minds Program at IBM Research - China in our Beijing or Shanghai locations. Participants must submit at least one letter of recommendation from their faculty member and their most current CV to the following link:


A committee of IBM technical experts will review all applications and qualified candidates will be notified for interviews. Finalists will start their internship in 2017 on a mutually agreed date. Please don’t forget to propose your possible starting dates and internship duration (2 - 3 months) in your CV.

Deadline for submissions is  May 1, 2017
Join us if you want to be:

**Exceptional Research Scientist**

You have:

1. Enormous enthusiasm in scientific innovation and intellectual curiosity.
2. Sufficient knowledge in domains to develop research projects and methodologies including but limited to: Artificial Intelligence, Architecture and System, Operations Research, Medical Informatics, Statistical Analysis, Image Processing, and Robotics.
3. Demonstrated proficiency as least in one of the programming languages.
4. Doctoral or Master candidates in Computer Science, Electrical Engineering, Statistics, Automation or other related areas from top universities.

**Software Engineer / Super Hacker**

You have:

1. Enormous enthusiasm in software engineering and intellectual curiosity.
2. Experience of the development in domains including but not limited to: Artificial Intelligence, Architecture and System, Operations Research, Medical Informatics, and Robotics.
3. Demonstrated proficiency as least in one of the following programming languages: C, C++, Java, Python, R, SPSS. Desired experience of GPU or FPGA programming.
4. Bachelor degree or above.
Job Descriptions

Research Area

Research Area 1: Innovative Industry Solutions and Services

Innovative industry solutions and services based on big data analytics and optimization are becoming the next frontier of industry transformation, where industrial data as a kind of new resource is the basis for building competitive advantages nowadays.

Industries and Solutions department is one of the fastest-growing teams to apply advanced data analytics and optimization technologies to solve real-world challenges across industries. CRL focuses on leading data-driven decision making and industry transformations using advanced analytics, mathematical optimization and data mining in one of the following sub-areas:

- Environment and Energy
- Cognitive Internet-of-Things
- Cognitive Healthcare Services
- Logistic & Supply Chain Management
- Smart Commerce and Smart Mobility

Research Area 2: Cloud Computing and Systems

- Cloud Computing
  CRL focuses on cloud infrastructure technology (Docker, Cloud Foundary, microservices) and advanced tools for cloud operation and analytics. The preferred candidates should possess sufficient specialist knowledge in prototyping, development and operation new cloud technologies.

- Blockchain Technology
  Focusing on the research and development of cutting-edge underlying technology in Blockchain, with continuous contributions to the Hyperledger project, CRL strives to apply solutions and technologies to solve real business problems through new applications and solutions. The preferred candidates should possess strong specialist knowledge in distributed computing and databases, and capabilities of quickly prototyping applications to demonstrate underlying technologies.
Research Area 3: Cognitive Computing

● Cognitive Platform and Systems
CRL focuses on systems for cognitive applications including software and hardware co-design (e.g. FPGA or GPA acceleration), and cognitive systems for speech, natural language, image and video. The preferred candidates should possess broad knowledge across the whole stack of the cognitive system, and understand how to design a system, which can support large-scale learning with high performance and low power.

● Cognitive Technologies
CRL is working directly with academic and industrial partners to solve real-world problems, with focuses on the following sub-areas: Natural Language Processing/Understanding, Speech & Audio Analytics, Affective Computing, Dialogue Management, Computer Vision, Knowledge Representation & Reasoning, Deep Learning, and Machine Learning.
Great Mind

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