

IBM Systems Technology Integration Research

Global Technology Services Incubation Laboratory

IBM Almaden Research Center, Silicon Valley, California, USA

**1-Year Placements in Silicon Valley, U.S.A.
Salary and all expenses paid.**

IBM Research is looking for Early-Career Talent (ECT) candidates who want to do a 1-year placement in Silicon Valley to expand their knowledge and gain industry working experience.

IBM Global Technology Services (GTS) is building a new technology evaluation and integration lab in the IBM Almaden Research Center. The GTS Incubation Lab is led by Dr. Nikos Anerousis, a veteran researcher in networking and distributed systems.

ECTs will work with early-stage technology companies to integrate their newest technologies with IBM's offerings for IT platform infrastructure management. This will involve technology evaluation, building proof-of-concept pilots, product integration into IBM's offering portfolio, and deploying and testing things in customer environments.

We are looking for ECT candidates who have a background in operating systems, distributed systems, networking, and cloud, and who have a desire to learn in the following fields:

- software-defined networking and software-defined storage
- hybrid cloud and automating cloud orchestration
- automated systems administration and workload monitoring
- failure handling/remediation,
- applying cognitive (AI) technologies to service delivery.

Successful candidates will be good systems programmers interested in working on next-generation infrastructure technology. They will work together with IBM researchers to evaluate technologies, build prototypes, and deploy and test them on cloud platforms, e.g. IBM Bluemix.

Candidate Profile

Candidates are current BS or MS/MEng students or recent graduates in Computer Science, Electrical Engineering or a related field. PhDs and PostDocs are also invited to apply.

Candidates can show a background in software engineering and in areas such as:

- Basic software engineering tools/methods, e.g. Agile, GIT, ECLIPSE, IDEs
- Systems programming in OO languages, e.g. Java, C++, Python, Javascript
- Experience using frameworks, e.g. node.js, JQuery, Google App Engine, React.js, Django
- Good OS foundation in Linux, Unix, and/or Windows Server
- Understanding of *software-defined infrastructure* concepts, such as:
 - Software-defined networking (SDN)
 - Software-defined storage (SDS)
 - Automated provisioning, cloud orchestration and management/DevOps
- Awareness/use of infrastructure management tools, e.g. Jenkins, Puppet, Chef
- Understanding of distributed systems: client-server, web services, networking, protocols, configuration
- Understanding of virtualization: hypervisors, private and public cloud, e.g. IBM Bluemix, VmWare, OpenStack, AWS, Google Cloud, Azure, etc.
- Ability to use / program SQL databases. NoSQL, graph DBs, etc. would be a plus
- Awareness of Machine Learning and how to apply it

Successful candidates will:

- Learn IBM's strategy for cloud computing and IT managed services
- Learn the technologies and services IBM is developing in this space.
- Assist with the discovery / evaluation of startups with promising technologies
- Build prototypes and demos in the cloud and test / characterize their properties
- Get to know the latest hot startup and open source initiatives in this space.

Applicants are invited to apply for a 1-year placement at the GTS Incubation Lab at the IBM Almaden Research Center in Silicon Valley.

Submit applications at <http://ectalent.global/apply>