You are receiving this message as a Juniper Networks Academic Alliance (JNAA) Member Contact or because you have been identified as a JNAA program advocate. The JNAA Program envisions a global community of people united by Juniper Technology for the benefit of one and all. Its mission is to empower students and researchers to learn of, collaborate on, and contribute to Juniper's networking technology; enabling them to challenge the status quo, enrich the academic environment, and create opportunities for innovation, entrepreneurship, and career development. More information can be found on the JNAA microsite.

Introduction

The Juniper Networks Academic Alliance program consist of two main pillars: education and research. In this month's newsletter, we would like to share more details on what the research pillar is, how we support it, and how you can participate.

Best regards,

The Juniper Networks Academic Alliance team.

JNAA Member Update

Our program is proud to welcome the following new members below.

- Taif University, Saudi Arabia
- New Jersey Institute of Technology, United States

JNAA Project and Research Opportunities

In the JNAA research track, we aim to offer faculty and students access to meaningful research and project opportunities based on Juniper technology. Our aim is to enable new technology development, open source contributions, and/or the application of learned theory and skillset.

Within the research track, we've created the three levels of engagement listed below:

1. **Senior Projects**

At the first level, we group research projects that take a relative short time to complete. These initiatives would enable students to apply their newly learned skillset to an industry relevant challenge. When the project is completed, the project source might join the project presentation or review the published results.

- Timeframe: Weeks / months
- Target audience: Students
- Project source: Various (Juniper, partners, customers, JNAA members)
- JNAA support: Software access, temporary licenses, Cloud Lab resources, equipment loans, limited engineering support, facilitating the introduction between the project source and student team for cooperation
- Project presentation: Juniper might join and might provide feedback
- Example topic: **Juniper Networks-Lancom POC whitepaper replication** (Technische Universitat Chemnitz, Germany)

2. **Open Research**

For the second level, we gather open topics identified by Juniper as being of interest in the 4-6 year horizon. As such, they take a longer time to complete, and thus attract PhD students, researchers, and faculty members with a rotating team of project contributing students. When the project is completed, the project source will join the project presentation or review the published results.

- Timeframe: From one to multiple years
- Target audience: PhD students, faculty members, researchers
- Project Source: Various (Juniper, partners, customers, JNAA members)
- JNAA support: Software access, temporary licenses, Cloud Lab resources, equipment loans, limited engineering support, facilitating the introduction between the project source and student team for cooperation
- Project presentation: Juniper will join and might provide feedback
- Example topic: **ONOS-Juniper Networks driver development** (Technion, Israel)

3. **Collaborative Projects**

At the third level, we envision the true joint-development between Juniper Networks and our Academic Alliance members. It could range from product improvements to new technology development. From the academic alliance side, our involvement is limited to facilitating the contact between the JNAA member and the relevant Juniper engineering department. Further project management is then taken on by the engineering department and Alliance member as it involves project roadmap, milestones, budget follow up, resource allocations, and so on. Keep in mind that these opportunities may be rare, and that funding may hinge on the strength of the university relationship with Juniper in other areas.

- Timeframe: Multiple years
- Target audience: Researchers
- Project Source: Either Juniper Networks or the research institute
- JNAA support: Facilitating the introduction between the Juniper engineering team and research institute
- Project presentation: Juniper will join and will provide frequent feedback.
- Example topic: Several projects have been proposed and are under consideration

We believe that within the JNAA program, the research track complements the education track by offering participants an opportunity to work with the cutting-edge technology while making their first contact with the industry that they will operate in later on.

For a full list of JNAA research opportunities have a look here (Password protected).

Event in the Spotlight: Lillebaelt Academy JNCIS-SP Bootcamp

When the Lillebaelt Academy, one of the most advanced JNAA members in Europe, called upon the Academic Alliance program to organize a specialist-level training and certification event, we knew there was a chance to boldly go where we hadn't gone before. The typical Lillebaelt Networking Academy student surpasses the associate-level certification as part of their curriculum, so the Academic Alliance program aspired to set up the first ever Service Provider Routing and Switching, Specialist (JNCIS-SP) bootcamp for them.

What followed was a year of preparations by Vincent Herreman, the JNAA program manager for EMEA, and Peter Liljehof Thomsen, Assistant Professor at the Lillebaelt Academy, that transformed the concept into reality. Part of the idea here was to make this a train-the-trainer event, and to invite instructors from other schools. To allow for international participation, the event could not overlap with the existing academic calendars of the participants. For this reason, August was selected as it offered the least amount of conflicts. Lillebaelt Academy arranged for a large lecture room and nearby lab rooms to be made available for the duration of the event, and Juniper freed up our own expert instructor, Erminio Cassella, to deliver the courses. For the mandatory lab exercises, the Juniper Academic Alliance team selected the same Juniper Networks Education Services lab environment used for Juniper's commercial training offerings. The local Juniper Networks Sales Engineer, Sonny T. Larsen, also volunteered to provide the occasional technical assistance during the lab exercises.

"This event truly embodied The Juniper Way: bold aspirations, authentic, inspired trust, delivered excellence and it has made a meaningful difference; plus, it was just great fun to do!" - Vincent Herreman

JNAA members from The Netherlands (*Hogeschool Utrecht*), UK (*University of Staffordshire*), Italy (*Universita di Pisa*), France (*École Supérieure d'Ingénieurs en Électrotechnique et Électronique*), Spain (*Universidad de Alicante*) and Denmark (*Lillebaelt Academy*) rallied to the call and sent in their instructors and best JNCIA-JUNOS students for this free training and certification, resulting in an international audience of over 60 students.

You can read the full article here.

Future Events

All around the globe we are setting up events with and for our JNAA members. And, as always, there are seats available for guest student delegations. If you are interested in joining one of the events below, send us an e-mail and we will make the introductions.

Date	Content	Location	Country
01/2018	JNCIA-JUNOS	University of Johannesburg (UJ)	South Africa
01/2018	JNCIA-JUNOS	Addis Ababa Institute of Technology (AAiT)	Ethiopia
03/2018	JNCIA-JUNOS	Artesis Plantijn Hogeschool Antwerpen (AP)	Belgium
08/2018	JNCIS-SDNA	University of Johannesburg (UJ)	South Africa
08/2018	JNCIS-SDNA	Budapest University of Technology and Economics (BME)	Hungary
08/2019	JNCIS-SEC	Hogeschool Utrecht (HU)	The Netherlands

Are you eager to host an event? Let us know!

JNAA Program Updates and Roadmap

We are continuously looking for ways to improve our Academic Program offerings.
As it stands, the following deliverables are set for deployment:

2017 H2 - Launch of the on-demand e-learning modules for JNAA. [Watch a sneak peek here]
2017 H2 - Build out the research track of the JNAA program.
2017 H2 - Launch of Juniper Open Learning

Your ideas. Connected.™