



We are Austria's largest applied research institute and are a leading global player in many areas of infrastructure research. This makes us a powerful development partner for industry and one of the top employers in the international scientific sector. Related to a recently awarded ERC grant of the European Research Council, our Centre for Digital Safety & Security is seeking new Ingenious Partners in Vienna:

## Scientist (m/f) in the field of Photonics & Optical Telecommunications (PostDoc)

### IMAGINE

- Communication links are the cornerstone of a modern society. We explore new ways to use the physical properties of optical and wireless communication media to obtain unprecedented performance at cost- and energy efficiency.
- As a team member and related to a recently awarded ERC grant you will work at the scientific frontier of coherent optics for communication and sensing.

### ENGAGE

- Together with the project team, you will elaborate novel component- and system-level concepts in design and experiment.
- Your experimental research activity (chip-level testing, system evaluation, signal processing) from component to the network level will sharpen the understanding of cutting-edge coherent systems for access, datacom and 5G applications.
- You will disseminate your findings in top-of-the-line journals and present on international conferences.

### ACHIEVE

- You will co-supervise and support undergraduate and doctoral students.
- With your innovative work you will help to manage the most current challenges in photonics research.
- Take lead in new projects that may derive from your activity.

As Ingenious Partner you have:

- A doctorate degree – or being in their last year of study – related to the said topics (e.g., electrical engineering, physics)
- A solid track record of published research work, evidence of research potential and experience on operating larger-scale experiments with the required “gut-feeling”.
- Knowledge in the cross-cutting fields of radio communication (RF engineering) and quantum technology is seen as benefit as it eases the interaction and cross-pollination with all colleagues who derive from different fields but work as a single team.
- Fluency in English and spirit to work in an international environment is required.
- Ability to integrate in a multi-national research team, high commitment and motivation to work in frontier research.

What to expect:

The minimum gross annual salary according to the collective agreement is EUR 60.000,--. The actual salary will be determined individually, based on your qualifications and experience. In addition, we offer company benefits, flexible working conditions, individual training and career opportunities.

### TOMORROW TODAY – WITH YOU?

Please send your CV, including a full track record and accompanied by a motivation statement by October 31<sup>st</sup>, 2018 to

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