

## SPOTLIGHT

SPOTLIGHT, a newly launched Marie Skłodowska-Curie Innovative Training Network (ITN) offers fifteen (15) PhD positions in seven European countries. The project will work towards a 5G mobile networks architecture that aims to break performance limitations of the currently loosely inter-connected, resource-fragmented and isolated in operation mobile network ecosystem, by transforming the existing multi-layered set of attachment points to a flat coalition of massively distributed transceivers utilizing a common pool of energy, radio, computing and storage resources that are optimally handled by a cloud-empowered network core. More information on the project can be found here: [http://cordis.europa.eu/project/rcn/205539\\_en.html](http://cordis.europa.eu/project/rcn/205539_en.html) and here: <http://gain.di.uoa.gr/spotlight>.

### Benefits

These ESR enrollments are under very attractive employment conditions and competitive salaries offered in Marie Curie Innovative Training Networks. The selected ESRs will join top-class research groups and have a unique opportunity to pursue a career in mobile communications. Working in this ambitious research project, could lead the ESRs to the successful completion of a doctoral degree, together with a very strong joint multidisciplinary research training program in the field of emerging mobile networks. The planned mobility among seven EU countries and ten institutions is a plus of these job positions.

### Eligibility criteria

Candidates must also meet the following criteria: 1) be in the first four years (full-time equivalent research experience) of their research careers; 2) be of any nationality, but not having resided or carried out their main activity in the country of the host institution of the position they are applying to for more than 1 year in the past 3 years; 3) have not yet been awarded a PhD degree.

### Selection process

Applicants are expected to submit the attached application form, indicating their preference to one or more of the following positions, along with a motivation letter, full CV, degrees, recommenders' contact details (up to 3), and any other relevant documents, at [itn.spotlight@gmail.com](mailto:itn.spotlight@gmail.com), not later than **MAY 31st, 2017**.

## LIST OF OPEN POSITIONS

**ESR1** - Host institution: Eurecom - Project Title: Novel PHY techniques for fully-uncoordinated uplink transmissions in massively distributed MIMO systems with centralized processing

**ESR2** - Host institution: Eurecom - Project Title: Low-complexity antenna design for massively distributed MIMO systems

**ESR3** - Host institution: University of York - Project Title: Network coding and waveform design for concurrent downlink data delivery in massively distributed MIMO systems with centralized processing

**ESR4** - Host institution: MTN - Project Title: Cognitive terminal-tracking and transmission profile selection schemes with partial information of the network topology

**ESR5** - Host institution: Open Univ. of Catalonia - Project Title: Ultra-reliable data compression in massively distributed MIMO systems

**ESR6** - Host institution: University of York - Project Title: Massive MIMO with 3D beamforming in the mmWave band

**ESR7** - Host institution: Politecnico di Milano - Project Title: Cloud-empowered DSP exploiting big data

**ESR8** - Host institution: Politecnico di Milano - Project Title: Cloud-empowered RRM using big data analysis feedback

**ESR9** - Host institution: Iquadrat - Project Title: Mobility management and flow control in massively distributed MIMO

**ESR10** - Host institution: NEC - Project Title: Flow-optimal routing of traffic in a plain IP mobile core network data-plane

**ESR11** - Host institution: Nessos - Project Title: Coupling and pooling resources in loosely-coupled multi-layered networks

**ESR12** - Host institution: Ericsson - Project Title: Resource elasticity in massively distributed and loosely-coupled MIMO systems

**ESR13** - Host institution: Open Univ. of Catalonia - Project Title: Optimal strategies for popular content placement in massively distributed MIMO

**ESR14** - Host institution: University of Athens - Project Title: Fountain-encoding techniques for improved QoE in massively distributed systems

**ESR15** - Host institution: University of Athens - Project Title: Popular content delivery using massive machine type communications