What is the work of an IMDEA Networks researcher?

1. Wanting to know: how communications work
2. Learning and snooping around: tirelessly asking yourself *why*?
3. Persisting: looking for solutions to existing technological challenges
4. Inventing and innovating: finding a solution (one way or another) and applying it to the real world
5. Improving and progressing: your knowledge and skills and of those around you

Want to be a networks researcher?

You should have studied:
- Telematics Engineering
- Telecommunications Engineering
- Electronics Engineering
- Computer Engineering
- Mathematics
- Physics
- ... or a related field

We have to reinvent EVERYTHING!
Networks allow you to carry data from one device to another through computer equipment connected to each other by physical or wireless means.

At IMDEA Networks we develop today the principles and network technologies of the future to achieve the following:

- Bring the Internet within reach of everyone, everywhere
- Make the Internet of Things happen (6 billion connected objects!)
- Achieve faster and faster real time connections, that are instantaneous and faultless
- Ensure cyber security: provide networks that are safe for work, for play, for informing ourselves and for socializing
- Preserve privacy and data transparency in the network
- Analyze and evaluate the social networks that are revolutionizing our way of existing in the world
- Enable cloud storage (there is also fog and edge computing!)
- Learn to manage the challenge and the promise of Big Data: information is control, knowledge makes us free
- Create clean, energy efficient devices that don’t harm the planet
- Develop artificial intelligence that makes the impossible possible
- Be the forerunner of the 4th industrial revolution: automation is here, we have to REINVENT EVERYTHING we do

Some figures from the networks of today:

- 6 billion cellphones
- 2 billion social networks profiles
- 1 billion active Facebook users
- 120 million apps downloaded every day
- 200 billion photos on Facebook
- 4 billion views on YouTube every day
- 2 million smartphones sold daily
- 290 million tweets daily
- 500 million Twitter accounts
- 1 billion active Facebook users