

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

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We have
to reinvent
EVERYTHING!



Communications networks

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

6
billion
cellphones

2
million
smartphones
sold daily

290
million
tweets
daily

3
billion social
networks
profiles

120
million
apps downloaded
every day

500
million
Twitter
accounts

1
billion
active
Facebook
users

200
billion
photos
on Facebook

4
billion
views
on YouTube
every day

**Some figures
from the networks
of today**