

# MSc in Software Systems Engineering

**Jens Krinke**

Programme Director

**Emmanuel Letier**

Deputy Programme Director & teaching two modules

**Ricki Madawho**

Teaching & Learning Administrator

**Carol Hannah**

Former MSc student and current PhD student

# UCL Software Engineering Research Group

World-leading research in software engineering

- 10 full time academic staff, 8 affiliated academic staff, around 20 postdoc and PhD students
- Search-based software engineering, automated testing & debugging, predictive analytics, requirements engineering, and more.
- Strong links with industry

All teaching done by experts in their field

# Who is the MSc for?

You have an undergraduate degree in computer science, or you have worked several years as a software engineer

- You already know how to program and are familiar with several programming languages (at least one OO)
- You have good knowledge of fundamentals of CS: algorithms and data structures, operating systems, networks, compilers, databases, software lifecycle activities, software modelling

You want to bring your software engineering skills to next level

# MSc Software Systems Engineering

Teaching philosophy: Learn by working on real problems

- Recent student project clients & collaborators: Microsoft, IBM, Intel, Avanade, NHS, IFRC, ...

## Core Software Engineering Topics

- Requirements and architecture, Validation and verification, software development practices, professional practice, research methods
- Includes a client group project during the year

## Two options

- among modules on program analysis, distributed systems, software security, machine learning, financial systems, etc.

Summer project: Group project *or* research project

# Outcome

You'll be among the best qualified software engineers in the world

Software engineering jobs consistently ranked among best jobs based on employee satisfaction