Research IT: RSE and Apps Support
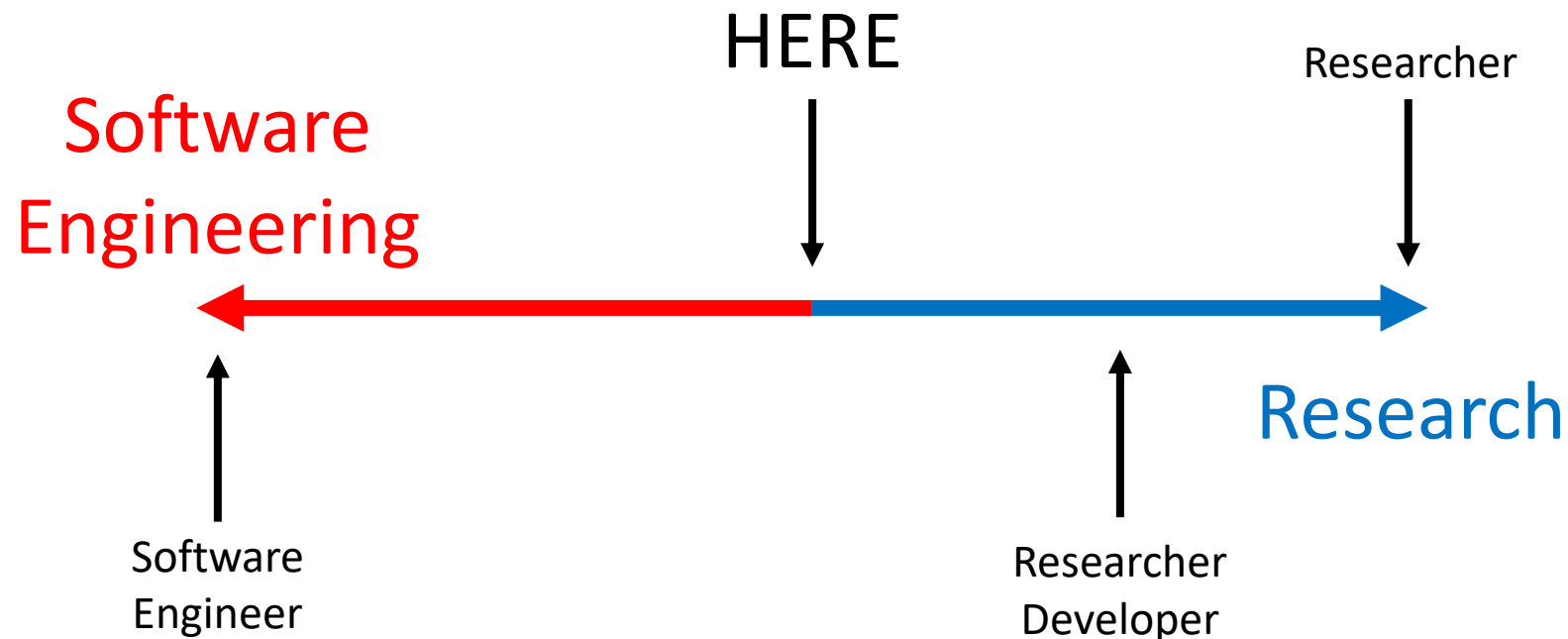
Robert Haines

robert.haines@manchester.ac.uk

Research IT Club, 11th December 2018

What is a Research Software Engineer?

HERE

Researcher

Software Engineering

Research

Software Engineer

Researcher Developer

Simon Hettrick: http://slides.com/simonhettrick/why-we-need-careers-for-research-software-engineers-10-13-17

The Craftsperson and the Scholar

Image courtesy of Beinecke Library and bcmom

James Hetherington: http://www.software.ac.uk/blog/2012-11-09-craftsperson-and-scholar

Join the UK RSE Community

- Careers

- Events

- Training

- International links

- www.rse.ac.uk

RSE noticeboard

More RSEs!

- We have recently recruited more RSEs
  - Peter Crowther
  - Adrian Harwood
  - Ian Hinder
  - Kamilla Kopec-Harding
  - Douglas Lowe
  - James Sinnott

- More to come soon!

UMRI Pump Priming call

- We have been involved in a number of projects in the past
- In particular, for the 2019 thematic priorities:
  - Digital Futures
    - Health and Care
    - Cities and Environment
    - Creative and Heritage
    - Data Science
    - Social Media
    - Internet of Things
  - Greater Manchester
  - Transforming Cities

- Outline application: 18th Jan 12am (!)

Training and drop-in sessions

Training courses: 2019

• Introduction to Linux/UNIX shell	12 Dec, 5 Jun
• Introduction to Python	30 Jan, 26 Mar
• Programming in Python	19 Dec, 5 Mar, 15 May
• Introduction to Data Visualization	TBC
• Introduction to HPC and using the CSF	20 Feb, 22 May
• Automation and Make	24 Apr
• LaTeX course (inc. UoM Thesis template)	26 Feb, 10 Apr
• Data Analysis with R	23 Jan, 12 Mar, 29 May
• Interactive data viz with R and Shiny ⭐	TBC
• Version control with Git and GitHub	19 Mar
• Introduction to MATLAB	6 Feb, 8 May
• Introduction to Mathematica ⭐	29 Jan
• More information + online courses here:	http://bit.ly/2w6TfC0

- Fortran Modernisation Workshop, 4-5 April 2019
- Topics that will be covered include:
  - Modern Fortran standards (including 2018);
  - NetCDF and HDF5 scientific file formats for data sharing in Fortran;
  - GNU make to automate the build process;
  - pFUnit unit testing framework for testing Fortran codes;
  - In-situ visualization using PLplot in Fortran;
  - Fortran interoperability with C, Python and R;
  - Introduction to parallelism for Fortran.
- Instructors from NAG; free for all attendees
- Register: https://www.nag.co.uk/content/fortran-modernization-workshop-information-registration-0

Drop in sessions

- Every two weeks around campus
- No appointment necessary
- Anything Research IT related
- If we can't solve your problem right away, we'll get back to you
- Come and see us (1400-1500):
  - 16th Jan – Michael Smith, Foyer
  - 30th Jan – Alan Turing, Ground Floor
  - 13th Feb – Ellen Wilkinson, Grad School
  - 27th Feb – Kilburn Building, Byte Café
- See the blog/newsletter for other dates as they are announced

How to contact us

- Website:
  - http://www.itservices.manchester.ac.uk/research/

- IT Services Support Centre:
  - https://supportcentre.manchester.ac.uk

- Twitter:
  - @UoM_eResearch

- Blog:
  - https://researchitnews.org/
  - Sign up to our newsletter here