

# Micron Oxford: users & facilities

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## 1. users / data



85 registered current users

~30 TB data (linux + windows)

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## 2. microscopes

- 2 Deltavisions
- 2 spinning disks
- 2 OMX microscopes
- Olympus confocal
- planned: SPIM microscope
- planned: confocal

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## 1. users / data



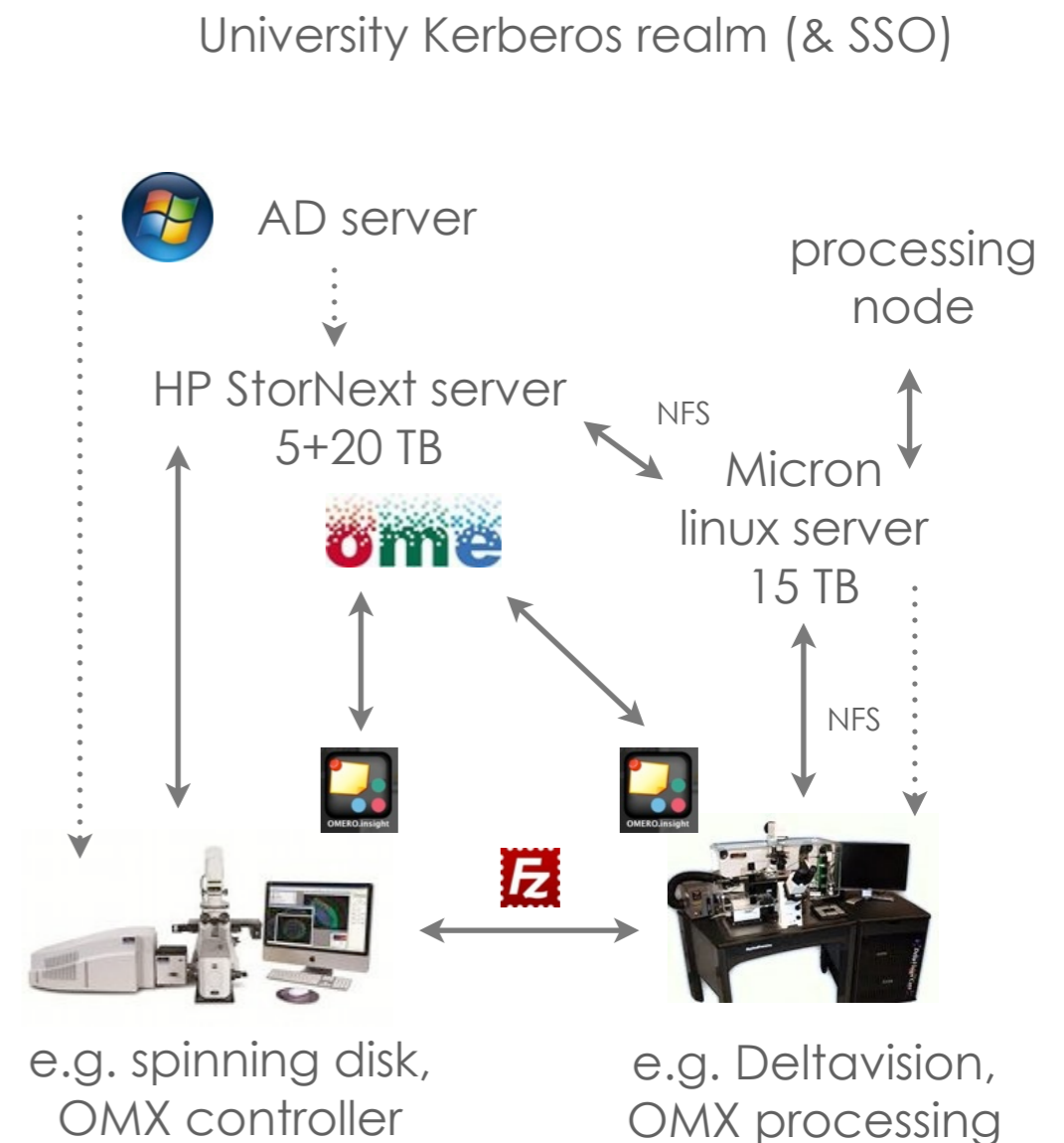
85 registered current users

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## 2. microscopes

- 2 Deltavisions
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- Olympus confocal
- planned: SPIM microscope
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## 3. network & storage



# OMERO at Micron Oxford

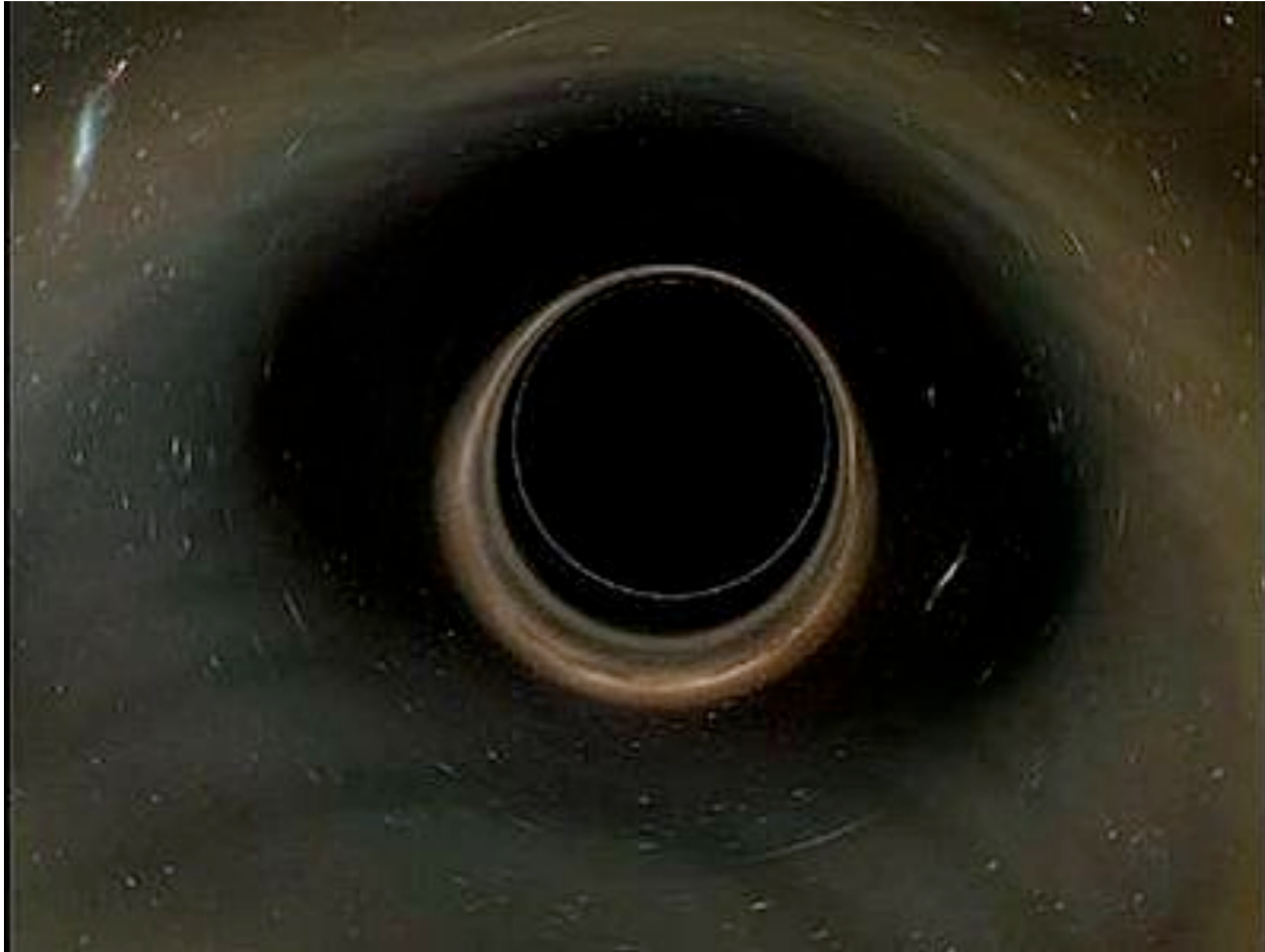
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- Installed on StorNext hierarchical storage
- version 4.3.3.
- 20 users, ~1/2 current, 2 or 3 active, 2 TB data

# OMERO at Micron Oxford

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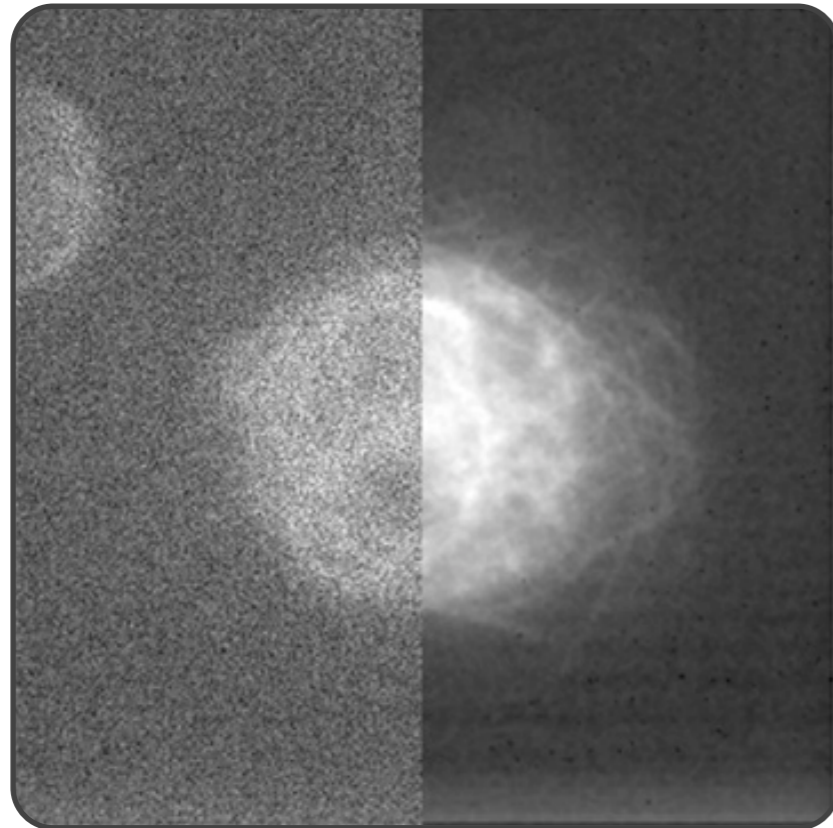
16/17 Feb 2012

[graeme.ball@bioch.ox.ac.uk](mailto:graeme.ball@bioch.ox.ac.uk)

# Plan A. killer application

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## 1. patch-based denoising

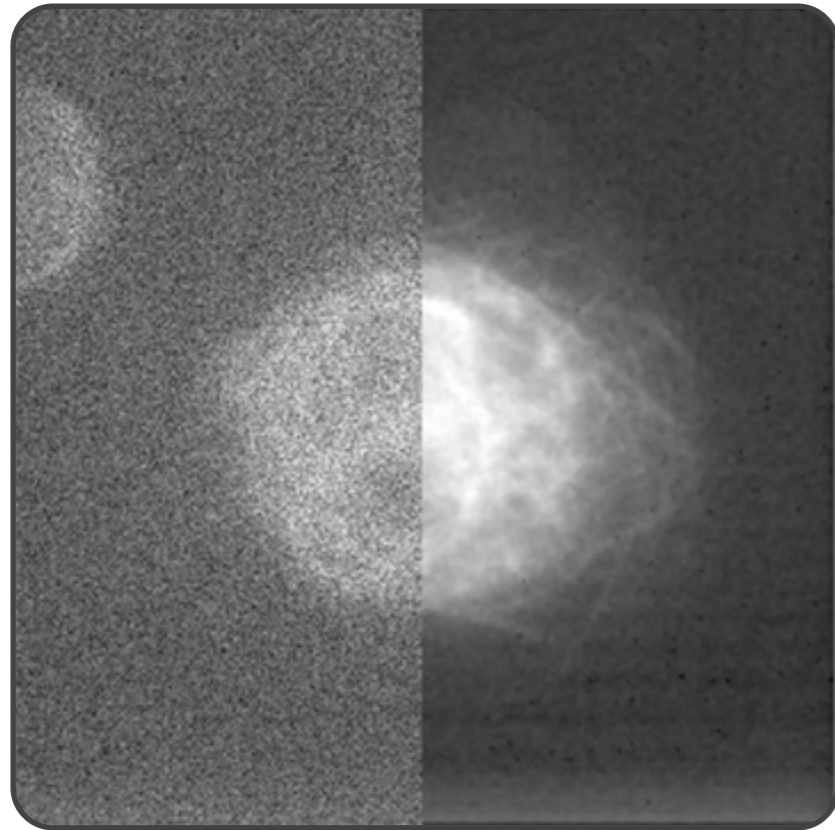


- uses John Sedat / Dave Agard's Priism
- currently require MRC or TIFF input
- goal: run job remotely, retrieve result & link to original

# Plan A. killer application

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## 1. patch-based denoising



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**2. other applications:** flat-field correction, alignment of multi-channel data, deconvolution, SI reconstruction, localization microscopy

# Plan B. go-between

Software	Used by Micron?	Formats supported
Fiji / ImageJ	yes	(bioformats)
Volocity	yes	ome.tiff, .tiff, .dv
softWoRx	yes	.dv, .tiff, ome.tiff???
Matlab	yes	(bioformats)
Priism	yes	MRC, .tiff
CellProfiler	not yet	(bioformats)
KNIME	not yet	(bioformats)
Icy	not yet	(bioformats)
Vaa3D	not yet	(bioformats)
BioimageXD	not yet	.tiff, MRC, ome.tiff?
Imaris	trial	(bioformats)
Amira	trial	.tiff, amira mesh
Metamorph	yes	.tiff, .stk
Image-Pro Plus / AutoQuant	trial	?
Huygens	trial	ome.tiff, .tiff, MRC, HDF5
ITK & VTK	not yet	(bioformats)



# Plan C. secure image repository

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## 1. essential

- nothing is lost on import
- record of the origin of the data
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- data deletion possible (to trash first), history/metadata eternal
- undo; Time Machine-like historical snapshots
- local versions of a project, sync

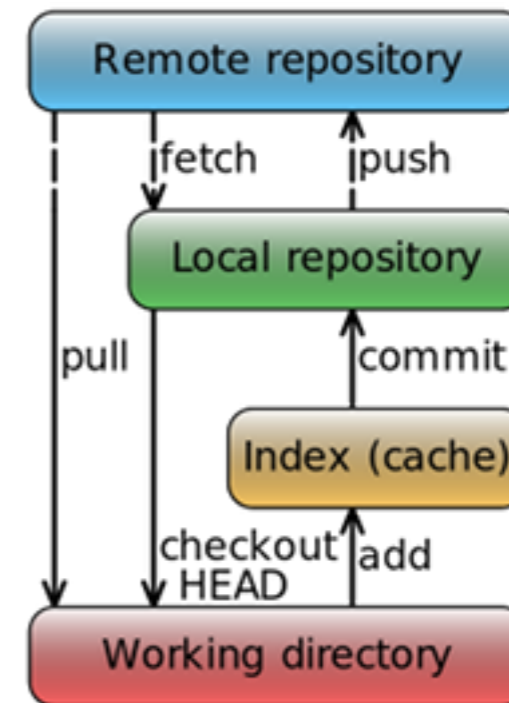
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# OMERO: feedback/questions

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to: Project -> Dataset -> Image -> Processed image (or just links/tags?)

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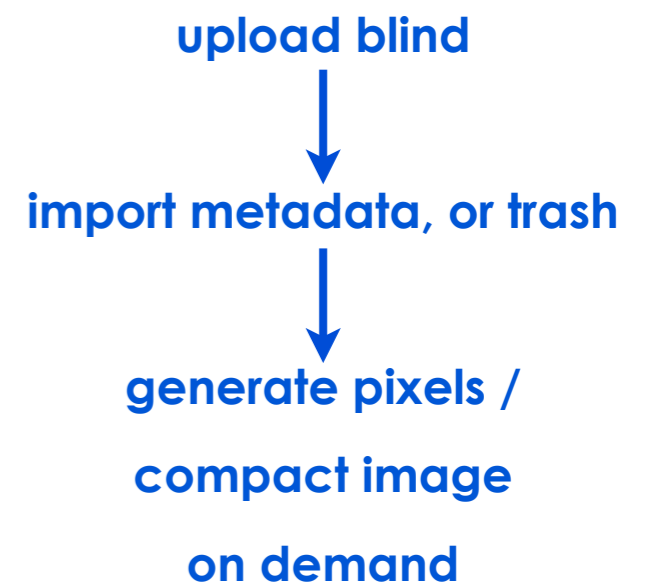
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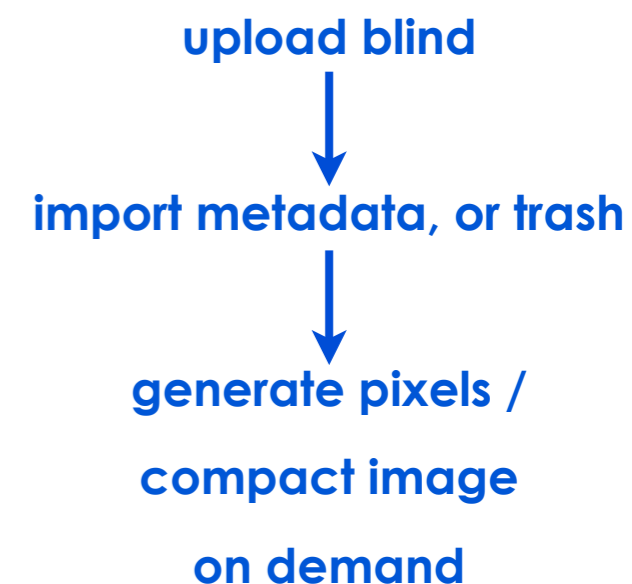
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## 4. more admin functionality & info in web admin / insight

e.g. statistics, quotas, last login, permissions





# OME satellite developer

## Job Details

### OME Software Developer

Department of Biochemistry, South Parks Road, Oxford

Grade 8: E37,012 - E44,166 p.a.

We are seeking to appoint a software developer to work as part of a unique, world-leading collaborative academic software research and development project (the Open Microscopy Environment) that is changing the way bioscience works. This is an exciting stage of the project, where the core functionality that has already been built can be delivered to large numbers of end users and integrated with a whole ecosystem of complementary tools including: ImageJ/Fiji, KNIME, CellProfiler, Matlab and many others.

Candidates should have a strong software development track record and be comfortable working in a collaborative environment. They should hold a relevant degree with post-qualification software development experience: familiarity with client/server and/or image-related application development are especially desirable. The ideal candidate would possess strong object-oriented programming skills, preferably in python and/or java; and have significant experience with unix-based software development and SQL database applications. Open source development expertise, particularly using github, would be advantageous, as would familiarity with some of the project's other core technologies: ZeroC's ICE, C/C++, Django, PyTables, XML, TIFF images. An academic background related to imaging or computer vision would also be considered a plus. Given the large number of technologies and disciplines involved in this project, the position will be an excellent opportunity to learn new skills.

This full-time post is available from the 1 April 2012. It is funded by the Wellcome Trust for up to 3 years in the first instance and is under the direction of Professor Ian Davis.

Please quote reference number BR/497 when applying and include a cv and a supporting statement.

The closing date for applications is midday on Friday 16 March 2012 with interviews for shortlisted candidates approximately two weeks later.

Contact Person : Margaret Dixon or Rita Emberton      Vacancy ID : 102254  
Contact Phone : 01865 613204      Closing Date : 16-Mar-2012  
Contact Email : [jobs@bioch.ox.ac.uk](mailto:jobs@bioch.ox.ac.uk)

Click on the link(s) below to view documents	Filesize
<a href="#">102254 BR497 OME Software Developer Grade 8</a>	206

Apply Now

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- nature jobs £??
- github \$350 / 30 days
- stack overflow \$350 / 30 days
- sourceforge/slashdot \$290 / 30 days
- [monster.co.uk](http://monster.co.uk) £199

**closing date 16-Mar!**

<http://tinyurl.com/88u57bn>