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Research Associate in Geography

Reference: THW/16/059639/000506**Salary Details:** £32,600 per annum**Allowances:** £2,323 London Allowance**Contract Type:** Temporary/Fixed term**Contract Term:** Full time

Based at the Strand Campus this post is based within the research team of Professor Martin Wooster and focused on the study of biomass burning and their emissions to the atmosphere. Whilst based at King's, the appointee will also be affiliated the NERC National Centre for Earth Observation (NCEO).

The post holder will work on development, use and exploitation of satellite data, alongside other environmental datasets. They will study particular biomass burning episodes, most likely those exacerbated by the recent (and currently ongoing) El Nino event, and will exploit new fire radiative power (FRP) measurements now provided by geostationary and polar orbiting spacecraft. Some improvement of algorithms required to turn the 'raw' satellite thermal observations into information on active fires maybe required.

Applicants should have strong experience of working with satellite data/ products and be able to code in Python and/or IDL. Experience of working with a combination of datasets to investigate particular environmental phenomena will be a significant advantage, in order to develop definitive records of particular biomass burning episodes.

This post is offered on a full time, fixed term contract for 16 months.

The salary will be paid at Grade 6.31, £ 32,600 per annum, plus £2,323 per annum London Allowance.

The selection process will include a panel interview.

Closing date: 22 April 2016**Attachments:**[Job Pack](#) (Word Document 278k)

If you have questions about this role, please contact: Professor Martin Wooster, Tel: 020 7848 1734, Email: martin.wooster@kcl.ac.uk.

Application form:

Note: Only one document can be uploaded. If you wish to submit any additional information please include it within the application form.

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Reference: THW/16/059639/000513**Salary Details:** £32,600 to £35,609 per annum**Allowances:** £2,323 London Allowance**Contract Type:** Temporary/Fixed term**Contract Term:** Full time

Based at the Strand Campus, the post will be based within the research team of Prof. Martin Wooster and is focused on further development of the Global Fire Assimilation System (GFAS), a state-of-the-art fire emissions estimation system currently operated in real-time as part of the Copernicus Atmosphere Monitoring Service (CAMS: www.gmes-atmosphere.eu/). GFAS uses satellite Fire Radiative Power (FRP) data to deliver daily, global fire emissions information to CAMS, as detailed in Kaiser et al. (2012): doi:10.5194/bg-9-527-2012. The work has both high visibility and the potential for very significant impact as the results may be implemented operationally within GFAS/CAMS.

Primary foci will be on developments needed to enable new satellite FRP data streams to be used within CAMS, from both polar-orbiting (SLSTR, VIIRS etc) and geostationary (Meteosat, GOES, etc) systems. FRP data must be evaluated, blended, re-gridded and have their quality monitored to be used within GFAS, ultimately delivering enhanced, higher temporal resolution fire emissions information. The newly updated GFAS outputs will be used in science studies, and the post holder will compare the fire activity and fire emissions data to potentially influencing information on weather and vegetation conditions to help elucidate processes influencing fire activity at landscape/regional scales.

Applicants should have expertise in working with satellite.

This post will be Fixed Term, for 29 months in the first instance.

This is a Full-time post – 100 % full time equivalent.

The salary will be paid at Grade 6.34, £32,600 to £35,609 per annum, plus £2,323 per annum London Allowance.

The selection process will include a panel interview.

Closing date: 22 May 2016

Attachments:[Job Pack](#) (Word Document 279k)

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