

Quote ref: EPS /176/06

Internal ref: Mrs A O'Neill / Miss M Gohil

THE UNIVERSITY OF MANCHESTER

PARTICULARS OF APPOINTMENT

Faculty of Engineering and Physical Sciences

Manchester Interdisciplinary Biocentre and Manchester Centre for Integrative Systems Biology

**Postdoctoral Research Associates on 'The Systems Biology of Regulation'
(2 posts)**

Ref: EPS/176/06

- 1 The University invites applications for the above posts which is tenable for a period of 36 months
- 2 Starting salary will be £25,633 per annum according to relevant experience and qualifications.
- 3 Informal inquiries may be made to Prof Hans Westerhoff Tel: +44(0)161 306 4407 Email: hans.westerhoff@manchester.ac.uk
- 4 Applications, marked "Confidential – Staff Application", including a full curriculum vitae, a list of publications, a brief description of research interests and the names of three referees should be returned by **1st July 2006** to

The Human Resources Office
The University of Manchester
PO Box 88
Sackville Street
Manchester
M60 1QD

- 5 Unfortunately, due to financial constraints, it is not possible for the University to acknowledge applications or contact all unsuccessful applicants. If you have not been contacted by the end of July 2006 you should assume that, on this occasion, your application has not been successful. We would, however, like to take this opportunity to thank you for your interest in The University of Manchester.

WITH THE COMPLIMENTS OF THE DIRECTORATE OF HUMAN RESOURCES

JOB DESCRIPTION

Job Title: Research Associate
Reference: EPS/176/06
School: School of Chemical Engineering and Analytical Science
Grade: 6
Responsible to: Professor Hans Westerhoff

Main purpose of the job:

For a joint project between the groups of Hans V. Westerhoff, Steve Oliver and Douglas Kell, in the Manchester Centre for Integrative Systems Biology, two postdoctoral positions are available for 3 years, to work on the systems biology of the dynamic regulation of gene expression. The expression of yeast proteins will be followed in time and so will the fluxes through them and the mRNA encoding them. In a new systems biology method called hierarchical regulation analysis [Rossell et al., PNAS 103, 2166-71, 2006) the relative importance of transcription, translation and metabolism for the regulation of cell function can be established experimentally. This will be extended here for understanding time-dependent regulation. Ultra quantitative methods for functional genomics will be applied and developed further. The study will put an end to speculation that regulation may not all be transcriptional, by measuring how much is regulated where and when.

Together the two postdocs should bring about the required combination of experimentation (assisted by a technician), theory and modelling that are characteristic of Systems Biology.

PERSON SPECIFICATION

ESSENTIAL SKILLS

The person appointed will:

- The postdocs will already have a PhD in computational biology or experimental molecular biology or anything that combines the two.
- Have the ability to work independently.
- Be able to demonstrate the ability to work collaboratively as a team member
- Have the potential of, or have evidence of, the ability to contribute to research papers in the field.

FURTHER INFORMATION

Further information on the University of Manchester can be found at <http://www.manchester.ac.uk>

If you do not have access to the Internet and would like more information about The University of Manchester please call the Human Resources Office on 0161 306 4058.

Enclosures

Application form

Guidance notes for applicants

Equal opportunities monitoring form

Copy of advert

THE UNIVERSITY OF MANCHESTER

FACULTY OF ENGINEERING AND PHYSICAL SCIENCES

**MANCHESTER INTERDISCIPLINARY BIOCENTRE AND MANCHESTER FOR
INTEGRATIVE SYSTEMS BIOLOGY**

**Postdoctoral Research Associates on 'The Systems Biology of Regulation' 2
posts**

(REF: EPS/176/06)

Starting salary £25,633 per annum

For the joint project between the groups of Hans .V. Westerhoff, Steve Oliver and Douglas Kell, in the Manchester Centre for Integrative Systems Biology, two postdoctoral positions are available for 3 years, to work on the systems biology of the dynamic regulation of gene expression. The expression of yeast proteins will be followed in time and so will the fluxes through them and the mRNA encoding them. In a new systems biology method called hierarchical regulation analysis (Rossell et.al, PNAS 103, 2166-71, 2006) the relative importance of transcription, translation and metabolism for the regulation of cell function can be established experimentally. Ultra quantitative methods for functional genomics will be applied and developed further. The study will put an end to speculation that regulation may not all be transcriptional, by measuring how much is regulated where and when. Together the two postdocs should bring about the required combination of experimentation (assisted by a technician), theory and modelling that are characteristics of Systems Biology.

The post is available for 3 years, with a salary of £25,633 per annum.

The Postdocs will already have a PhD in computational biology or experimental molecular biology or anything that combines the two, and will be based at the MIB (www.mib.ac.uk).

For informal enquiries contact Professor Hans .V. Westerhoff Email: hans.westerhoff@manchester.ac.uk

Application forms and further particulars are available from our website <http://www.manchester.ac.uk/vacancies>. If you are unable to go online you can request a hard copy of the details from EPS HR Office, The University of Manchester, Sackville Street Building, Manchester, M60 1QD, Tel: 0161 275 8837; Fax: 0161 306 4037 or Email : eps-hr@manchester.ac.uk.

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Closing date: 1st July 2006.

The University will actively foster a culture of inclusion and diversity and will seek to achieve true equality of opportunity for all members of its community.

Insertion details

Publication(s) Nature, Jobs.ac.uk, UoM website, Dept for employment, Careers
Date(s) 18 May 2006

