

**Senior Research Engineer/Research Scientist – Bioinformatics/Computational Biology**

**Ref: 29241**

**Location: Wilton – Teesside/UK**

**Responsibilities**

* Application of bioinformatics tools to inform metabolic engineering strategies with the aim to construct optimised metabolic pathways comprised of recombinant and engineered enzymes for the production of bulk chemicals.
* Bioinformatic and statistical analysis of genomic, transcriptomic, metabolomic and/or proteomic datasets.
* Utilising the -omics datasets to construct, refine and interrogate genome scale metabolic models.
* Integration of the –omics datasets to aid the understanding and engineering of the selected microbial host and also for the identification of novel genes, pathways and enzymes
* Liaise within a multi-disciplinary team of scientists, presenting, reviewing and appraising results.

**Requirements**

* PhD Bioinformatics or Computational Biology.
* Expertise in applying bioinformatics and statistical tools to analyse, interpret and disseminate knowledge gained from a wide range of high-throughput biological data either independently or integratively.
* Excellent analytical skills and a very solid foundation in microbial physiology.
* Ability to work in a challenging multidisciplinary environment, both independently and as part of a team.
* Hands-on experience in the analysis of metabolic networks using advanced techniques such as flux balance analysis and minimisation of metabolic adjustment to inform the design and optimisation of non-natural pathways in microorganisms.
* Experience in the visual presentation of biological data from modelling, -omics and other sources to non-bioinformatics audiences.
* Competent IT skills, including Microsoft Word, Excel, and Outlook

**Closing Date: 16th January 2015**

Interested applicants should submit a detailed CV in English along with a covering letter indicating their salary expectations to [**humanresourceswilton@invista.com**](mailto:humanresourceswilton@invista.com)

**Please use the job title and reference code in your application.**

INVISTA seeks dynamic, high caliber scientists and engineers to join its rapidly expanding Wilton, U.K., research and development team to develop pioneering solutions to commercialise next-generation industrial biotechnology.

As part of INVISTA’s commitment to innovation, it has invested in the emerging field of industrial biotechnology, operating its own biotechnology capability out of the R&D lab in Wilton. INVISTA’s bio-scientists and engineers are working, alongside collaborators in academia and external technology companies, to develop new biotechnology processes and bring bio-derived products to market.

Through innovative research efforts at the leading edge of science, INVISTA has the potential to develop advantaged technologies that could significantly improve the cost and availability of several chemicals and raw materials that are used to produce its current products.

To work successfully in our team, candidates must be comfortable with a challenging fast paced environment where interdisciplinary team work is essential.

INVISTA is one of the world’s largest integrated producers of chemical intermediates, polymers and fibers with a portfolio of some of the world’s most recognizable brands and trademarks including LYCRA®, COOLMAX®, CORDURA®, STAINMASTER® and ANTRON®.

[Picture](http://invista.dtinet.net/govtpa/Public/CommTools/INVISTA%20Logos/Forms/AllItems.aspx?RootFolder=/govtpa/Public/CommTools/INVISTA%20Logos/INVISTA%20logo&View=%7b4066A6E0-1316-4741-852D-B3134B630F4A%7d)