



The Opportunity

Title:	Optimization Developer – Lead Engineer
Business Unit / Product Line:	Product Technology Organization
Reporting to:	Senior Optimization Developer
Location:	FICO Office - Birmingham, UK
Travel In Job:	<10%

Role Background

The FICO Xpress Optimization Suite is one of the world leading optimization systems principally comprising a leading edge linear and mixed integer programming solver, an advanced model building language and a development environment. The Xpress Development Team is responsible for writing and maintaining the FICO Xpress Optimization Suite. The Development Team reports to the Tools Division of the Product and Technology Organization. The Team's task is to keep the Xpress Suite at the forefront of optimization software and the particular challenge for the Optimization developers within the Team is to advance the state of the art in this fast moving field.

This is a great opportunity to see your own innovations implemented in a high performance solver and used by leading companies in a wide range of applications.

This role may involve occasional travel to conferences, customer sites and development meetings worldwide.

Responsibilities

This position is for an optimization developer. He or she will join a team who write, test and maintain the FICO Xpress Optimizer. The job requires innovation and the development of new mathematical methods and their implementation, sometimes individually but also with other team members. It will require familiarization with the current Optimizer code and understanding of the algorithms and implementations currently in use.

It is expected that the developer will make a significant contribution to the Xpress Optimizer, such as the mixed integer linear, quadratic and potentially general non-linear solver components.

Frequently working with customers to continually improve the Xpress Optimizer's performance and features.

Skills & Experience

Degree in mathematics is required with either training or experience of software engineering. A doctorate in mathematical programming or equivalent experience at this level is advantageous.

A track record in research either as a post doc or in a similar optimization development position elsewhere is desirable. Candidates must be able to demonstrate competence in innovating new techniques and implementing them efficiently in C/C++ in performance critical and large scale environments.

Familiarity with modern development tools is essential.



Personal Characteristics

- Innovative and logical thinker with an attention to detail.
- Ability to work proactively, with minimum supervision.
- Ability to juggle multiple tasks/projects simultaneously; strong prioritization skills; ability to meet deadlines.
- Must be capable of working effectively within a small team, some of whom do not share the same location. Must be sufficiently effective as communicator by telephone and e-mail as well - as on a one-to-one basis - to work in such a team.
- Self-starter; ability to maintain composure, project a positive and professional image, and work well under pressure.
- Flexibility regarding hours worked will be required.

Our Compensation Approach

- Basic salary is dependent on experience, value and expected contribution
- We operate various incentive plans to recognise and drive performance; we will supply details applicable to this opportunity on a 1:1 basis.
- Employee benefits in line with local market practice are offered in each FICO location – relevant details will be supplied on a 1:1 basis.

Why make a move to FICO?

At FICO, you can advance your career within one of the fastest-growing fields in technology today - analytics. With our industry leading credit scores and other solutions, FICO is the leader in predictive analytics for banking, insurance, retail and healthcare. Our ability to drive smarter decisions is driving some of the world's leading companies to a new level of analytics-fuelled success. Our success is founded on really talented people – just like you – who enjoy:

Innovation – create analytic solutions that are embedded in our products and offerings

Teamwork – lead and learn from the very best in your field

High Performance – challenge yourself and reap the rewards of delivering results

Opportunity – grow with a global company that develops talent

Please contact Cara Russon, HR Consulting – Senior Manager for more information regarding this role. Email cararusson@fico.com or call on +44 (0) 121 781 4828. Visit www.fico.com.