Launch your career

with the MathWorks Engineering Development Group

> In EDG, my colleagues and I were given the opportunity and the resources to succeed. I gained proficiency in engineering, management, and business, and this has allowed me to contribute to the success of The MathWorks and our customers.
>
> *Craig, University of Massachusetts*

The MathWorks

Experience

Put Your Degree to Work

In EDG, you put the skills you learned at university to immediate and practical use. Your EDG projects contribute directly to software that is changing the way engineers work and think.

Work with World-Renowned Products

MathWorks software for technical computing and Model-Based Design has enabled technological breakthroughs throughout industry, such as:

- Flight control software for a scramjet vehicle traveling at Mach 10 speed
- DNA sequencing algorithms
- A retinal prosthetic that enables the blind to see
- Econometric models that help predict and avert financial crises in emerging economies
- Emission reduction systems that reduce air pollution from vehicle exhausts
- Voice processing technology that matches the sound of the human voice
- Image processing algorithms that improve MRI accuracy
- Simulations that enabled an international team to salvage the Kursk submarine

John (M.S. in Mechanical Engineering, Penn State University) developed a rapid prototyping controller for the Stewart platform hardware plant on xPC Target.

"For my grad thesis I developed an end-to-end design of a robotic manipulator. My experience helped me with this project, as did my background in control design theory and mechanical control and implementation."

Joe (M.S. in General Engineering, University of Illinois) designed the examples and exercises in the customer training course, MATLAB® and Simulink® for Control Design Acceleration.

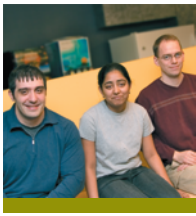
"I used my control system theory and knowledge from school, as well as my MATLAB and Simulink programming experience."

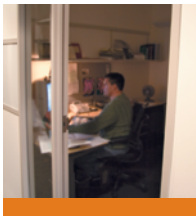
Laurens (M.S. in Biotechnology, University of Michigan) developed a Simulink model of a drug infusion controller to present to medical device and biomedical companies on sales visits.

"I had done mathematical modeling in biological systems in graduate school. My knowledge of control design and biomedical terminology and human modeling was also a great help."

Anuja (M.S. in Communications and Networking, Worcester Polytechnic Institute) developed software for checking errors in the dialog box parameters for a new blockset. It will ship on every product CD.

"My thesis involved quite a bit of MATLAB programming, and that helped me get started. My coursework in networking and communications helped me understand the functionality of this blockset."





Qualifications

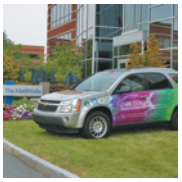
- M.S. in engineering or computer science
- Exceptional technical skills
- Excellent communication skills
- Familiarity with control systems, signal processing, or mathematics
- Knowledge of at least one programming language
- Strong commitment to learning and personal development
- Knowledge of MATLAB a plus

View current openings

www.mathworks.com/company/jobs/students

Submit your resume

grads@mathworks.com



The MathWorks is the leading global developer of software for technical computing and Model-Based Design. MathWorks customers are 1,000,000 leading engineers, scientists, mathematicians, and researchers. They work in the world's most innovative technology companies, government research labs, and financial institutions, and at more than 3,500 universities.

Employing more than 1,800 people, The MathWorks was founded in 1984 and is headquartered in Natick, Massachusetts, with offices and representatives worldwide.

Resources and Support

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The MathWorks

Accelerating the pace of engineering and science

The Engineering Development Group

The MathWorks Engineering Development Group (EDG) prepares talented, entry-level engineers for technical careers throughout The MathWorks, providing practical experience and formal training in a work environment that fosters teamwork, learning, and fun—and giving you the opportunity to help shape the future of the company that is accelerating the pace of engineering and science.

You help customers resolve technical problems and work on projects of your own choosing—projects that let you try new things and prepare you for the next step in your career. For example, while in EDG you might:

- Help design and implement new product features
- Create product demos for www.mathworks.com
- Write code samples
- Develop examples for product documentation
- Quality-test products
- Assist with onsite customer training
- Give technical sales presentations
- Demonstrate MathWorks products at trade shows

Apply Your Skills Company-wide

There is no minimum tenure in EDG. You can transfer to another group in the company whenever the opportunity arises. Managers in Application Engineering, Customer Training, Development, Quality Engineering, Documentation, Marketing, Sales, and Web Development all hire directly from EDG.

Recent Transfers

Jason, M.S. in Electrical Engineering, McGill University
8 months in EDG—Now a quality engineer, Real-Time Workshop® Embedded Coder Group

Kevin, M.S. in Mechanical Engineering, Cornell University
11 months in EDG—Now a technical consultant

Michael, M.S. in Mechanical Engineering, Georgia Tech
15 months in EDG—Now an industry marketing specialist

Alec, M.S. in Electrical Engineering, Portland State University
21 months in EDG—Now a software engineer, Image Processing Group

Developmen

Help customers resolve challenging technical problems

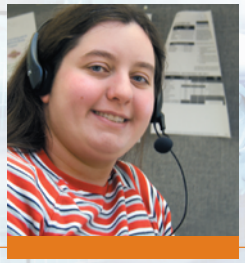
"Customers don't call up asking how to install the product. They want to know why their system doesn't linearize. They want to know what's wrong with their models. To help them I had to know a lot about signal processing, controls, and power."

Ronelle, University of Witwatersrand, Johannesburg

"One day I might help a customer who's designing a roller-coaster at Disney World. Another day I might assist an engineer who's running an entire steel mill on MathWorks products—or I might teach top-secret security agents who will not say what they are doing with MATLAB!"

Shannon, Boston University

Contribute while you learn



"In most jobs, you spend months just coming up to speed. In EDG you begin making a contribution immediately. You learn new skills from colleagues and share with them the skills that you bring."

Sarah, Massachusetts Institute of Technology

"I've learned so many new things while working here that I've lost count. I am not just referring to our products, but also to how they are applied."

Joe, University of Illinois

t Group

Interact with technical experts

"In my second week, a customer called with a question about sparse matrices. I had no experience with sparse matrices beyond a basic understanding of what they were. I was told that Cleve Moler was the expert. On my way up to Cleve's office, I remember thinking, 'Is it really OK for a lowly engineer such as myself to go to the Chief Scientist of the company—the man who invented MATLAB?' Cleve sat with me for two hours and explained everything there is to know about sparse matrices."

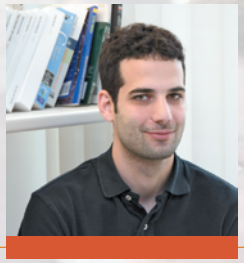
Craig, University of Massachusetts

Shape product development

"EDG is a great jumpstart for your career. You quickly become a product specialist—from the customer's viewpoint. I am the gateway from the customer to Development. I will bring my understanding of customer needs into everything I do at The MathWorks."

Kavita, University of Michigan

Explore careers company-wide



"The opportunities are limitless. The amount of training available and the ability to try new things allow me to go wherever I want. In two years I see myself working with the sales force as an application engineer."

Jason, University of Illinois, Urbana-Champaign

"After just six months in EDG I became a QE engineer in the Control and Identification group. The training I received in EDG is critical to my new role."

Andrew, University of Michigan