

corporate profile



Engineering Services Inc. is a proud member of the Robotic Industries Association.

[Click here for more information about the RIA.](#)

Engineering Services Inc. (ESI) is a leading robotics and automation technology company, specialized in the development, design and manufacture of advanced robotics and automation products and custom robotics systems. ESI is recognized as a world leader in the continued development and manufacture of new, leading-edge robotics technology. ESI is well known in the industry for developments of robotics-based modular automation, mobile robots, customized robotic systems, intelligent mechatronics systems, and software for expert systems. ESI's emphasis on mobility and modularity of hardware and software allows it to create highly flexible and adaptable solutions that can be easily and rapidly re-configured to meet the needs of various industries.

Each ESI division boasts accomplished experts and specialists who are well prepared to take a development from research and conceptual design to full production, ensuring impeccable quality and reliability.

To date, ESI has exported its technology and products to the United States, Mexico, Sweden, Denmark, Belgium, France, Germany, Switzerland, Israel, Turkey, India, Korea, Singapore, Australia, New Zealand, etc.

The services and products of ESI are used by or under development for the following industrial sectors:

- Law enforcement
- Medical surgery
- Nuclear industry
- Space industry
- Biotechnology laboratory automation
- Military, security and defense
- Power utilities
- Robot manufacturers

Some of ESI's projects include:

- Handling and neutralizing bombs and ordnance
- Dispensing DNA and bacteria in biotechnology applications
- Repairing of live underground gas pipes
- Automatic protection of jet fighter pilots
- Locating underground anti-personnel and vehicle mines
- Remote MRI-assisted surgical biopsy
- Design of modular and reconfigurable robots
- Automatic grading of pork carcasses

ESI operations are divided into four divisions:

The [Biotechnology Automation](#) division is involved in the following areas:

- *Micro-robotics for genomics*
- *Micro-robotics for proteomics*
- *Micro-fluidics and lab-on-the-chip*
- *High-throughput laboratory automation*

The [Mobile Robots](#) division is involved in the following areas:

- *Explosive and ordnance disposal*
- *Military robotics*
- *Detection of landmines*
- *Remote control surveillance*

The [Robotics and Automation](#) division is involved in the following areas:

- *Modular and reconfigurable robots*
- *Underground gas pipe maintenance*
- *Medical robotics*
- *Inspection and repairs in nuclear reactors*

The [Security and Defense](#) division is involved in the following areas:

- *Fuzzy logic-based expert systems*
- *Data acquisition and modeling in military physiology*
- *Miniature gas sensors*
- *High-acceleration protection of jet fighter pilots*
- *Smart materials and biomimetic actuators*