



# Health Information Technology

Graduates in Health Information Technology (HIT) possess a multidisciplinary skillset encompassing IT instrumentation and healthcare-specific knowledge. They are able to analyze medical and healthcare system needs, bridge the gap between health specialists and IT engineers, and design information systems and software for healthcare, clinical/preclinical research and medical devices. Our HIT engineers are uniquely qualified to run outsourced health information systems and instrumentation projects.

- Recent graduates have secured positions like:
- HIT engineering consultant
  - Medical Device R&D engineer
  - HIT development engineer
  - In-house HIT manager at hospitals and other healthcare facilities

### Our graduates possess solid general engineering skills

- A capacity to use resources from a broad range of basic sciences
- Knowledge and understanding of a specialty scientific and technical field
- Mastery of engineering tools and methods
- An ability to work within an organization, manage a team, and implement change
- Understanding of broader industrial, financial, and professional issues
- A capacity to work in international settings
- Respect for societal values



Graduates have mastered specific competencies that prepare them to handle real-world professional situations:

Competency	Situation
Understanding healthcare system user needs	<ul style="list-style-type: none"> <li>Drawing up formal specifications based on user needs to design a healthcare system</li> <li>Drawing up formal requirements for the development and maintenance of a health care system</li> <li>Providing recommendations for specific healthcare system solutions</li> </ul>
Designing and implementing information systems for healthcare and clinical/preclinical research and medical devices	<ul style="list-style-type: none"> <li>Implementing a Health Information System</li> <li>Developing a medical device</li> <li>Providing support on medtech innovation projects</li> </ul>
Managing a project and interacting with the prime contractor on Health Information System (HIS), medical devices, and clinical/preclinical research projects	<ul style="list-style-type: none"> <li>Implementing and integrating HIS solutions</li> <li>Managing interoperability</li> <li>Integrating a medical device into a healthcare or clinical/preclinical research system</li> <li>Planning and managing complex projects</li> </ul>
Understanding the social, economic, and legal/regulatory context unique to healthcare	<ul style="list-style-type: none"> <li>Making recommendations to improve a healthcare system based on health and demographic data</li> <li>Providing support for the implementation of a healthcare network or new HIS</li> <li>Managing socioeconomic activity</li> </ul>
Communicating about and promoting his/her projects	<ul style="list-style-type: none"> <li>Understanding the relationships between complex ideas and distilling them into clear, simple messages</li> <li>Presenting conclusions and recommendations</li> </ul>

### In-company placements:

- Third year: optional placement in July
- Fourth year: 12 weeks from May to August
- Fifth year: 22 weeks from April to September
- Graduation project: 2 months for external customers (companies or research labs)

### A selection of companies that have hired HIT Engineering graduates:

ACETIAM, ALTRAN, DOSHAS CONSULTING, EASIS, ENNOV, ENOVACOM, MAINCARE SOLUTIONS, ORANGE BUSINESS SERVICE, PURKINJE, SOFTWAY MEDICAL, SOPRA STERIA, TECHNIDATA, WEB100T, WORLDLINE...

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