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– Courtney Xibe, Class of 2018

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MBID at a Glance

Program Uniquenesses:
- Focus on real-world industry practice
- In-depth exposure to the rules, linkages and workings of all medical device industry functions
- Incorporation of state-of-the-art product development practices within the medical device industry using team-based project activities and deliverables.

Value to Industry:
- Well-rounded and trained candidates who are familiar with all aspects of medical device product development from concept through commercialization.
- Shortened "learning curve" for candidates to fill the ground running.

Well trained candidates for taking on project leadership roles for high priority cross-functional teams and projects.

Unique Highlights of the Program

The students in this program are trained on the processes involved in life cycle medical device product development to enable global product launches. The training comprises the following functions and domains of expertise.

Pre-Clinical R&D: contextualizing the frontier from concept evaluation and concept prototyping through pre-clinical testing and planning for preclinical testing.

Regulatory and Clinicals: covering all aspects of preparation submissions for global approvals as well as stakeholder engagement and preparation reporting for regulatory submissions.

Quality Assurance: covering the controls, change controls, non-conformances, CAPA, etc.

Manufacturing Scale-Up and Validations: for commercial release in global markets.

The faculty for this program includes a mix of experienced professionals from the medical device industry, academic faculty, and clinical practitioners. Guest presentations from academic and medical practice in entrepreneurial and clinical practice will be supplemented by visits to the various functions of local and national medical device companies. In-depth observations of clinical activities and in-depth observations of clinical activities will be a noteworthy feature of this program.

It is expected that at the end of the 12 month intense training offered in this program, the graduating students will be better equipped to perform in any function of the medical device industry in comparison to their counterparts with little or no exposure to the realities and industry practices of device development and commercialization.

How to Apply

Applicants who wish to pursue a career in biomedical product development such as medical devices, as well as, working biomedical professionals are encouraged to apply the Georgia Tech MBID professional master’s degree program.

To be competitive, you should have:
- An undergraduate degree in any discipline (e.g., engineering, science, medicine, business, etc)
- Relevant internships or experience in the biomedical, pharmaceutical, or related industries will be a plus
- Submission of a statement of interest, and three (3) letters of recommendation

Please submit all admission materials before December 1st of the year for desired entry in the fall of the following year.

How to Apply
Apply online through Georgia Tech’s application system by the Georgia Tech graduate admission system by the application deadline for the Georgia Tech graduate admission committee.

Apply online at: grad.gatech.edu

Once submitted, applications are reviewed by the department’s faculty admissions committee. Decisions are made by the end of February.
Program Uniqueness:
- Focus on real-world industry practice
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Value to Industry:
- Well-rounded and trained candidates who are familiar with all aspects of medical device product development from concept through commercialization.
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Unique Highlights of the Program
The students of this program are trained on the processes involved in the life cycle medical device development to enable global product launches. The training comprises the following functions and domains of expertise.

Pre-Clinical: R&D -comparing the horizons from early concept evaluations and concept prototyping through pre-clinical testing and testing for regulatory submissions.

Regulatory and Clinicals: covering all aspects of preparing submissions for global approvals such as 510Ks, IDEs, PMA, CE and country-specific submissions as well as conducting clinical studies and preparing reports for regulatory submissions.

Quality Assurance: covering the elements of design controls, change controls, non-conformances, CAPA, etc.

Manufacturing Scale-Up and Validations: for commercial releases to global markets.

“This MBID program provided an excellent base and overview of the medical device industry. Upon joining this program, I realized educational base only gave me some creative skills, technical abilities, and a baseline understanding of the regulatory process. This program brought that information into much more depth and introduced wide areas of medical device industry that I did not even realize was crucial to the development of medical devices. As a future engineer, I know this will provide me with a crucial understanding of the development and process of approval being the device reaches the market.”

Jack Novak, Class of 2018
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The MBID program provides a future-oriented platform of specialized expertise in the rapidly evolving field of patient care from emergency medicine, surgery, radiology, pharmacy, and related industries. As a result, the MBID program has become a highly sought-after program for students with interests in establishing careers in biomedical device engineering, regulatory requirements, healthcare delivery, business development, and healthcare policy.

Unique Highlights of the Program

The MBID program is unique in that it provides an excellent basis and overview of the medical device industry in comparison to other biomedical engineering programs. It is expected that at the end of the 12 month intensive training offered in this program, the graduating students will be better equipped to perform in any function of the medical device industry. The MBID program has been designed to meet the needs of students who are interested in developing careers in the medical device industry.
Testimonials from MBID program alumni:

"The program provided me with the opportunity to learn from the first-hand experiences of people in the industry... Not only do I feel much more prepared entering the medical device industry, but I have also made lasting connections with peers and classmates." - Courtney Khue, Class of 2015

"Being part of MBID felt as though I was part of a biomedical device company." - Vinoda Mayakonda, Class of 2015

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