Brief about the educational frame of BioMedical Design Novo Nordisk Foundation Fellowship Programme

BioMedical Design is a 10-months full time educational fellowship programme for professionals and academics with +five years of work experience.

The fellowship programme enroles an annual cohort of 16 fellows with a wide variety of backgrounds; business, healthcare, biosciences, engineering, design etc.. Fellows are grouped in teams of four based on subject matter knowledge, experience and personality profile.

The educational content is a mixture of theory and practice with a heavy emphasis on active application of taught theory and methods.

BioMedical Design process consist of a boot-camp and then three phases Clinical immersion (identify clinical needs), Creative skills (innovate solutions to clinical needs) and Commercial skills (implement solutions in terms of sustainable business model, approval strategy and clinical research studies). Figure 1.

During the clinical immersion Fellows are given access to select clinical departments for 6-8 weeks and during this period they will identify important unmet clinical needs. After data-supported filtering and prioritization of the identifies needs, fellows will ideate solutions to a subset of needs and lastly, they will shortlist one solution for prototyping and business modeling.

Hence, BioMedical Design is a need-driven innovation process and the backbone is the healthcare focused innovation model developed by INNO-X, Mixed Methods Innovation Model, but major part of curriculum is to be complemented with theory, methods and tools from various relevant disciplines.

All teaching and mentoring during the whole programme should be aimed to equip and guide Fellows through the BioMedical Design process, with the key result aimed at augmenting the innovation skills of Fellows’ and their personal inventory.