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|  | **program Information** |
| **NO.** |  |
| **Program Type** | Degree Based …………….....Non degree-Based ……..…. | □□ |
| **Level of Study** | Undergraduate ………..……Master …………………..……...PhD ………………………..…….Post Doc …………………..…..Specialty ………………..…….Subspecialty …………………Fellowship ……………..……..Short term Course ………… | □□□□□□ |
| **School** | School of Medicine, Mashhad University of Medical Sciences |
| **Department** | New Sciences and Technologies  |
| **Major/ Name of Program** | Post-doc or fellowship in Biostatistics in Nutritional and Biomedical Sciences |
| **Keyword(3 Words)** | Biochemical Sciences, Data mining, Cardiovascular diseases |
| **Language Requirement** | English |
| **Admission Requirement** | Ph.D. in Statistics or Biostatistics |
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| **Description (500 words)** | Cardiovascular disease (CAD) is the first leading cause of death in Iran and worldwide. Several factors have been associated with this disease including genetic risk factors, biochemical characteristics of population (e.g. HDL, hypertriglyceridemia, etc.), ethical background, nutritional patterns of population, etc. Despite extensive efforts in clinical management of patient, the prognosis and diagnosis of this disease is still poor. The aim of current project is to establish new rules and formula for diagnosis of patient with cardiovascular diseases using novel methods such as data mining algorithms (decision trees, neural networks, support vector machine) to find new models.  |
| **Complete Description** | In the current program, we will use our cohort of MASHHAD study bank (containing 8000 patients with and without CAD) and Vitamin D program (containing 1000 young women). We will employ data mining algorithms methods such as decision trees, neural networks, and support vector machine in order to identify new prediction models.To get more information about this proposal, please contact the group leader and see our previous recent publications.*Ghayour-Mobarhan M, et al. Mashhad stroke and heart atherosclerotic disorder (MASHAD) study: design, baseline characteristics and 10-year cardiovascular risk estimation. Int J Public Health. 2015 Jul;60(5):561-72.*Dr. Ghyour<http://www.ncbi.nlm.nih.gov/pubmed/?term=ghayour+mobarhan+M>Dr. Avan<http://www.ncbi.nlm.nih.gov/pubmed/?term=avan+a> |
| **Program Detail** | Please contact group leader to get more details |