

## PROJECT SUMMARY

**Title of the Project**                      **Establishment of wet lab facility exclusively for Bioinformatics Department**

**Location**                                      **SAFI Institute of Advanced Study**

**Objective**                                      **To establish a laboratory for the students to do practicals related to Molecular Genetics and Genome technology as per the scheme of university of Calicut for M.Sc. Bioinformatics**

**Duration**                                      **1 year**

**Beneficiaries**                                **Students and staff of SIAS**

**Executing Agency**                        **Social Advancement Foundation of India (SAFI)  
Rasiya Nagar, Vazhayoor East P.O.  
Ramanattukara Via  
Malappuram District – 673 633  
Kerala State, South India.**

**Project Cost**                                **Rs. 33 lakhs  
(Rupees thirty three lakhs only)**

**Dr. P. Mohamed Ali (Galfar)**  
**Chairman**

**Mr. T.P. Imbichammad**  
**Secretary**

**Rasiya Nagar**  
**23.02.08**

# **ESTABLISHMENT OF WET LAB FACILITY FOR BIOINFORMATICS DEPARTMENT**

## **Introduction**

Social Advancement Foundation of India (SAFI) is a nonprofit charitable trust established in September 2001 for the upliftment and transformation of educationally backward classes, particularly Muslim community into a progressive and advanced society. The trust is constituted by educationists, philanthropists and social activists with the objective of providing for academic and research programmes in frontier areas of science and technology and humanities, maintaining international standards. The vision of SAFI is the transformation of our people into an intellectually and morally advanced society competent and dynamic enough to meet the challenges of the modern world. SAFI envisages the emergence of competent leaders in every field.

SAFI Institute of Advanced Study (SIAS) is the most important institution conceived for the fulfillment of its mission. It is to be developed as a hub for post graduate study and research, a centre of excellence, which should in due course become a University or a deemed university. It requires careful advance preparation and massive investment. We have already acquired about 440 acres of land of which about 150 acres is set-apart for developing a campus and rest for developing a Township. We have already provided a magnificent building for housing the existing post graduate department of study like Biotechnology, Bio informatics, Mass Communication and journalism & Islamic Studies. The investment so far is about Rs. 20 crores. It has been the result of the generosity of our patrons.

For the institution to develop into a full fledged campus, much more facilities are essential and we approach our patrons with the hope that they will support or sponsor this project so that Safi Institute of Advanced Study will evolve into an ideal campus.

## **Project in detail:-**

Department of Bioinformatics was started as a division of School of Biosciences; SIAS and the department conducts a program of Masters in Bioinformatics affiliated to Calicut University. This is the first time such a program is conducted by an institution coming under the jurisdiction of this University. The students are admitted based on entrance examinations conducted by the University as well as the Institute. The total strength of students for the program is 12 and the duration is two years. The first batch of students finished their final semester examinations and is waiting for the results. The department has its own computer laboratory with fifteen computers and internet facility with broad band connection. The department is dedicated to maintain the highest standards in the study of Bioinformatics as well as to bring out the hidden potentials of the students in various fields such as software development, Structural Biology, genomics, proteomics and chemo informatics and drug design.

To establish a separate Department of Bioinformatics, wet lab facility is essential. Now the students are depending on the lab facilities of other divisions. So in order to make the department self reliant, materialization of this project is a must.

A separate building to accommodate these facilities are required with other proposals like Nucleic Acid Analysis lab, Microbial culture facility, central Instrumentation facility etc. for which a separate building namely Bio Medical research centre (BMRC) will be required. For this a project worth Rs. 98,60,350.00 has already been prepared and submitted.

## **Objectives**

1. To develop a state-of - the - art Research Laboratory exclusively for Bioinformatics
2. To join the global Bioinformatics scientific community in R&D.
3. To enhance the quality of learning with real time experiments & demos of various techniques

## Budget

Sl.No	Item	Cost (Rs. in lakhs)
1	BIO-RAD Electrophoresis unit	3.50 lakhs
2	Cooling Centrifuge	12.00 lakhs
3	PCR Machine	3.50 lakhs
4	DNA Sequencing Gel Apparatus with power pack	1.50 lakhs
5	UV Spectrophotometer	4.00 lakhs
6	Micropipette(1 Set)	1.00 lakh
7	Gel Documentation System	2.50 lakhs
8	Consumables	5.00 lakhs
<b>Grand total</b>		<b>33 lakhs</b>

## Project implementation and monitoring

The project is to be implemented and completed within 6 months under the supervision of the staff of Bioinformatics Department. This lab will be dedicated in the name of the donor or his nominee.