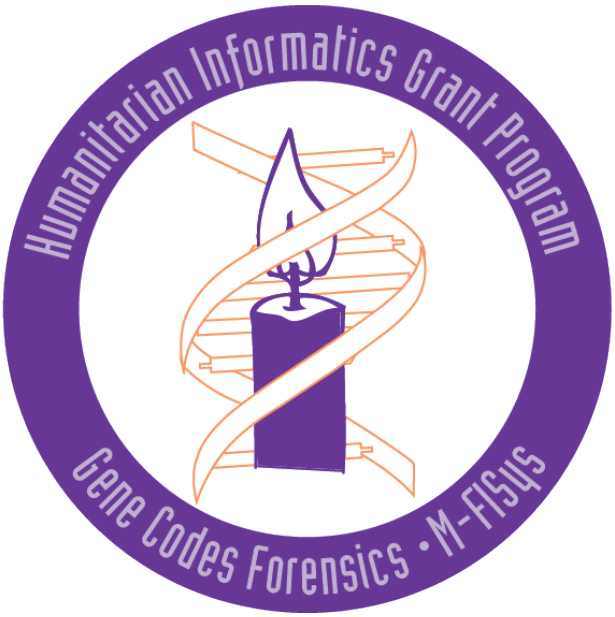
Application for
Humanitarian Informatics Grant Program



TCAGENE
AGTCODES
FORENSICS

Overview

Gene Codes Forensics has established a fund of one million US dollars to support non-profit, humanitarian organizations performing forensic DNA testing in human identification [HID] projects to help defray the cost of the *Mass-Fatality Identification System,* also known as *M-FISys*® (pronounced like "emphasis").

M-FISys is the forensic DNA database and software system developed by Gene Codes Forensics[1] to identify over 22,000 human remains from an estimated 2,760 individuals killed in the attack on New York City's World Trade Center on September 11, 2001. M-FISys has been substantially enhanced and extended since then and has been used in Disaster Victim Identification [DVI] projects ranging from terrorist acts to natural disasters to post-conflict HID of war dead to mass fatalities in industrial accidents. Independent scientific reviewers have consistently rated M-FISys as the most advanced, sophisticated, easy-to-use DNA matching system in the world for large scale direct and kinship based DNA identifications. M-FISys is sold primarily to governments and government agencies.

Description of the Award

Typically, M-FISys is sold as a ready-to-use system that includes the software developed by Gene Codes Forensics, all third party software, computing hardware, and training. While versions of the program with customized features can cost well over US$ 200,000 for a national license, the standard shipping version of M-FISys is US$ 150,000 per installation. ***Not-for-profit, humanitarian organizations are invited to apply to the Gene Codes Forensics Humanitarian Informatics Grant Program for support covering up to 90% of the cost of M-FISys installed on a single computer.*** Each grant award is for use in a single country; Trans-national NGO's may apply for multiple grants, one per country of use.

In the application form below, grantee should state the percentage of support they can provide in increments of 5% (minimum 10%) and the level of support requested from the Grant Program (maximum 90%). If awarded, grantee will be responsible for covering their level of support plus all travel related expenses (airfare, housing, ground transportation and meals) for the one week of user training for up to eight people, either at Gene Code Forensics headquarter in Ann Arbor, MI (USA) or at the grantee's site.[2]

---

[1] Gene Codes Forensics is a wholly owned subsidiary of Gene Codes Corporation, a bioinformatics company that has been providing DNA analysis software to commercial and academic researches around the world for nearly a quarter century. The Gene Codes Forensics division specifically supports Human Identification [HID] projects with software tools, training, scientific advising and operational analysis and consulting for its clients.

[2] Example: An organization might apply for a grant to cover 80% of the cost of M-FISys and receive an award granting them 75% support. That means the grant would cover $112,500 the total cost. If the awardee accepts the grant, their organization would be responsible for covering the remaining $37,500 plus any travel related costs for training.

Because the fund is limited to one million dollars, it is understood that not every proposal will receive an award. Further, it may possible that some awards will be offered at a level less than the full amount requested. If awarded, the grant recipient will have sixty (60) days to accept the award and warrant that they will be able to fund their level of support plus the travel costs for training. This should allow grantees time to raise matching funds from other sources, if necessary.

In some cases, government agencies will be deemed eligible for a grant award if that agency demonstrates and documents that it will use the system for a specific, humanitarian HID project. For example, post-conflict identification of human remains by a government agency might be considered a humanitarian project under this program.

Disclaimer

The limited funds will be awarded and applied to M-FISys installations at the sole discretion of Gene Codes Forensics, Inc. All decisions are final. Meeting eligibility requirements for award does not guarantee applicant will receive an award.

Instructions

This application may be downloaded from http://www.genecodesforensics.com/grants and edited to answer questions.

All answers must be in English.

Completed forms should be e-mailed to forensics@genecodes.com . If that is not possible, documents may be printed and faxed to Gene Codes Forensics at +1-734-769-7074

C.V.'s for personnel may be attached to this document or sent separately.

Application

I. Organization

1. Contact Info

Full Name, physical address of main office, phone, fax, e-mail, and website.

1a. If this is a trans national agency and the end user site is in a different country, please provide same information.

2. Organization Type

◯ NGO, ◯ University, ◯ Hospital, ◯ Government Agency, ◯ Other (please specify).

3. Institutional Affiliation

Is this organization a part of a larger entity (for example, the *United Nations* or *University of California at Berkeley*). If yes, please explain.

4a. Mission Statement (no more than 1500 characters)

What is the humanitarian mission of this agency?

If this is a not a humanitarian agency, then what humanitarian project is this for?

4b. Impact Statement (no more than 3,000 characters)

How will M-FISys be used by this organization and how will it enhance or promote the humanitarian mission of the organization?

5. Total Annual Budget For Organization in 2010, 2011 and 2012 (in US$)

6. Principal Funding Agencies / Donors

7. Application Point of Contact

Name, title, address, phone, fax, and e-mail.

8. Principle Investigator if different from point of contact

a) Name, title, address, phone, fax, and e-mail.

b) Estimated % of the Principle Investigator's time that is expected to be applied to this humanitarian project.

0%

9. Names of any scientists other than the Principle Investigator who are expected to compare DNA profiles or use the M-FISys database, including outside consultants.

10. Level of Support Requested for Single Installation of M-FISys. Check one:

- ◯ 90% to be provided by GCF Grant, 10% to be provided by recipient organization.
- ◯ 85% to be provided by GCF Grant, 15% to be provided by recipient organization.
- ◯ 80% to be provided by GCF Grant, 20% to be provided by recipient organization.
- ◯ 75% to be provided by GCF Grant, 25% to be provided by recipient organization.
- ◯ 70% to be provided by GCF Grant, 30% to be provided by recipient organization.
- ◯ 65% to be provided by GCF Grant, 35% to be provided by recipient organization.
- ◯ 60% to be provided by GCF Grant, 40% to be provided by recipient organization.
- ◯ 55% to be provided by GCF Grant, 45% to be provided by recipient organization.
- ◯ 50% to be provided by GCF Grant, 50% to be provided by recipient organization.
- ◯ 45% to be provided by GCF Grant, 55% to be provided by recipient organization.
- ◯ 40% to be provided by GCF Grant, 60% to be provided by recipient organization.
- ◯ 35% to be provided by GCF Grant, 65% to be provided by recipient organization.
- ◯ 30% to be provided by GCF Grant, 70% to be provided by recipient organization.
- ◯ 25% to be provided by GCF Grant, 75% to be provided by recipient organization.
- ◯ 20% to be provided by GCF Grant, 80% to be provided by recipient organization.
- ◯ 15% to be provided by GCF Grant, 85% to be provided by recipient organization.
- ◯ 10% to be provided by GCF Grant, 90% to be provided by recipient organization.

11. Date of Application

II. DNA Testing

1. Number of samples you test for **this project** on average in a month. "Internal" means the test was done in your agency's lab. "Outside" means a contract lab or lab in a collaborating agency. (Note: It is understood that many projects may not use all of these types of DNA tests. It is also understood that some project may outsource some or all of their forensic DNA testing and will be using the M-FISys database to manage results that have been developed by outside labs).

	STR Internal	Mito Internal	Y-STR Internal	STR Outside	Mito Outside	Y-STR Outside
Family References						
Personal Effects						
Unidentified Human Remains						

2. Future Plans (Check one)

- ◯ Our agency has a DNA lab and does not plan any capacity changes in the next 24 months.
- ◯ Our agency has a DNA lab and will add capacity in the next 24 months.
- ◯ Our agency does not have a DNA lab and we plan on building one in the next 24 months.
- ◯ Our agency does not have a DNA lab and has no plans to build one in the next 24 months.

3. STR Kits used by your organization (e.g., PowerPlex16, Identifiler Plus, SGM+, etc.)

4. Number of DNA analysts in your organization: _____

5. Number of Profiles That You Have Analyzed for This Project To Date

	STR	Mito	Y-STR
Family References			
Personal Effects			
Unidentified Human Remains			

6. How do you currently store the results of you DNA Tests? Check all that apply.

- ☐ In hard copy format only
- ☐ In Excel
- ☐ In a database developed by our agency
- ☐ In a database developed by someone outside of our agency

i) If so, please describe:

ii) Do you have resources to migrate data from your existing database to M-FISys or will you need help from Gene Codes Forensics to convert the data? Check one:

- ☐ internal resource will convert data
- ☐ requesting assistance converting data

7. How do you perform kinship and paternity analysis? Check all that apply.

- ☐ We do not currently do this and have no plans to do so in the next 24 months.
- ☐ We do not currently do this but have plans to add this in the next 24 months.
- ☐ We outsource the kinship analysis to the following agency/agencies or vendor(s):

  _____
- ☐ We use software that was developed in house.
- ☐ We use software developed by another agency or vendor.

  Please name: _____

8. Annual DNA Laboratory budget (in US$): _____

9. Please provide a Curriculum Vitae for key personnel including each person listed under Sections I-7 (Application Point of Contact), I-8 (Principle Investigator), and I-9 (other scientists comparing DNA profiles or using the M-FISys database). C.V.'s should include any other forensic or genetic software that the individual has personal experience using, such as Cyrillic, Genotyper, GeneMapper, GeneMapper-IDX, CODIS (including version number), MEGA, DNA-View, Sequencher, SeqScape, etc.

10. Please address any question via written letter or e-mail to:

Mike Hennessey
Director of Disaster Response
Gene Codes Forensics, Inc.
775 Technology Drive, # 100A
Ann Arbor, MI 48108 USA

Email: forensics@genecodes.com
Fax: +1-734-769-7074