

Qatar-Sweden Research Forum

September 28-29, 2015

Proposed Agenda

Day 1 (Full Day)

Morning: Beginning with common session

- Welcome, setting expectation
- Plenary talks
- Common discussion on objectives, vision for building Qatar-Sweden collaboration
- Break out session plan and desired outcome – white paper

Lunch: Networking and Lunch

Afternoon: Parallel breakout session

- Session 1: Energy and environment
- Session 2: Computing and computation science
- Session 3: Biomedical science
- Session 4: Social sciences and humanities

Dinner: Networking and dinner

Day 2 (Half Day):

Morning: Breakout session (2 hours)

- Session member meet to complete their write up and presentation

Late morning: Discussion outcome of each breakout

- Presentations from Energy and environment group
- Presentations from Computing and computation science group
- Presentations from Biomedical science group
- Presentations from Social sciences and humanities group

Next steps, closing remarks

Lunch: Networking and Lunch

Afternoon: Steering committee meeting (by invitation only)

Adjourn by 4:30PM

Areas for consideration

1. **Environment and energy:** support the Qatar National Research Strategy addressing Qatar's challenges in energy, water and environment. Focus areas include:
 - 1.1. Solar energy with specific focus on R&D in advanced materials (design, synthesis, characterization, and device development)
 - 1.2. R&D in renewal energy grid integration including M&S, micro-grid, and demonstration projects
 - 1.3. Energy efficient water desalination technologies;
 - 1.4. Waste water treatment and reuse
 - 1.5. Recharging Qatar's aquifers
 - 1.6. Environmental and sustainability management
 - 1.7. Urban planning
 - 1.8. Energy efficiency at building and urban scales

2. **Computing and computational science areas:**
 - 2.1. **Young researchers and Innovators**
 - 2.1.1. Cloud computing services
 - 2.1.2. Computer gaming
 - 2.1.3. Mobile computing applications
 - 2.2. **Researchers**
 - 2.2.1. Social computing
 - 2.2.2. Big data analytics
 - 2.2.3. Cyber security
 - 2.2.4. Computational science and engineering
 - 2.2.5. Access to HPC facilities for modeling and simulation

3. **Biomedical Sciences:**
 - 3.1. **Public Health Programs**
 - 3.1.1. Focus on infectious and zoonotic diseases: epidemiology, control, and prevention.
 - 3.1.2. Research and education programs
 - 3.1.3. Training programs for students and professional staff
 - 3.1.4. Develop biosecurity and biosafety (response and preparedness) program for emerging and re-emerging infectious diseases
 - 3.2. **In collaboration with the biobank on population genome study, the eventual organization of population-based cohort studies evolve from the Biobank Genome Project are crucial to explore the following areas:**

- 3.2.1. Biomarker discovery for early detection of cancer (Breast, Colon, Blood), diabetes, cardiovascular and neurological diseases (Parkinson, Alzheimer, Autism).
- 3.2.2. Tumor immunobiology, cancer Immunotherapy and especially breast cancer immunology.
- 3.2.3. Bioinformatics and Computational Genomics.
- 3.3. Organization of a national registry for the diseases mentioned in 3.2.1.
- 3.4. Training graduate students and post-doctoral fellows on human micro-biome, Proteomics, and genomic studies.

4. Social sciences and humanities areas: Specific topics may be included in broader context as articulated during CMES (Center for Middle East Study) delegation visit to Qatar:

- 4.1. Investigating and contextualizing the Qatar experience of balancing tradition and innovation.
- 4.2. Exploring sustainability and knowledge transfer.
- 4.3. Risk and safety management
- 4.4. Economic demography
- 4.5. Innovation and entrepreneurship

Members

Qatar based members:

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