Funding Opportunities for Research Collaboration

Road to a 100% Renewable Energy System, August 1-2, 2011
Opportunities...

1. Why collaborate in the first place?

2. Danish resources to support network activities:
   - Bilateral Network Program
   - Innovation Center Denmark, Silicon Valley

3. Danish resources to support research collaboration
   - Danish research funding framework
   - The Danish Strategic Research Council
   - The Danish Independent Research Council
   - The Danish National Research Foundation

4. US resources to support research collaboration
   - National Science Foundation (NSF) programs

5. Examples of collaborative projects
Why collaborate with California?

1. **Knowledge**: The best universities in the world: 1/3 of the world’s 20 best universities is in California. UC: best public university system

2. **Capital**: 1/3 of world’s VC is placed in Silicon Valley (Sand Hill Rd)

3. **Workforce**: The largest concentration of High educ. workers in US. + 300,000 researchers, engineers and technicians in Silicon Valley

4. **Business**: Home to the leading technology companies in the world

5. **Culture**: a unique ecosystem where researchers, VCs and entrepreneurs collaborate in an open and dynamic environment

Why collaborate with Denmark?

#1 ICT leading nation in the world (3. year in a row)
Source: World Economic Forum, Global Information Technology Report, 2008-2009 “Denmark is the most networked economy in the world”

#1 ICT ready country in the world
Source: Economist Intelligence Unit together with IBM “E-readiness rankings” 2009

#1 Most hospitable country to foreign capital investment
Source: Forbes Capital Hospitality Index, ’10 “Most Hospitable Countries to Foreign Capital Investment”

#4 most competitive country in the world
Source: The Global Competitiveness Report 2009-10

#1 ranking universities in Scandinavia
+1 pct. on GDP spent on public R&D in 2011
Danish Bilateral Network Program

- **2.5 million USD** to support bilateral network activities.
- **Who can apply?** Researchers employed at Danish universities and at R&D companies in DK
- **Deadline:** **Fall 2011**
- **Applications** for the following grant types are invited:
  - Exploratory bilateral **scientific workshops and conferences** with participation of researchers from Denmark and USA
  - **Visiting Scientist Grants** - Travel between Denmark and the US to identify collaborative projects and partners.
- Find most recent call [here](#).
CITRIS-Denmark Program

- Goal: Support exchange and bilateral network activities.
- 2-3 yearly events on research areas of mutual interest
- Annually 24 months of visiting scholarships at the 4 UC’s part of CITRIS, Berkeley, Davis, Merced and Santa Cruz
- Who can apply for visiting scholarships? Researchers employed at Danish public research institutions.
- Deadline: October 5, 2011
- Most recent call here. (call about program with Stanford here)
- Evaluations from previous visitors here.
Denmark-sponsored California events

- **Smart Grid Applied** Week (June 2011)
- Workshop: Road to a **100 pct. fossil Free System** (August 2010)
- UC-DK Summer School on **Renewable Energy** (August 2011)
- UC-DK Int. Workshop on **Synthetic Biology** (August 2011)
- UC-DK Workshop on **Indoor Environment Technology** (Sep. 2011)
- **Explosions of Virtualities** Workshop w. Stanford (October 2011)
- "**Smart Grid Applied - part II**” in Denmark (October 2011)
- **Foods for Health** Workshop with USDA and UC Davis (Nov. 2011)
- **US-DK Photonics** Workshop III (Jan. 2012)
Danish support of research collaboration
DCSF support of research collaboration

- Overall yearly budget: 1.1 billion DKK in 2010
- 20 pct. of budget can be transferred to international calls
- 54 pct. of all funding goes to applicants with international partners
- International dimension = key criterion in the assessment
- Anyone may apply for funding and participate. Funded research activities has to promote and strengthen Danish research.
- International participation is covered, e.g. costs associated with collaborative research, procurement of research from foreign research environments and bringing guest researchers to Denmark.
- For more information see also http://en.fi.dk/ under Councils and Commissions > The Danish Council for Strategic Research.
DCIR support of research collaboration

- Overall yearly budget: 1.4 billion DKK in 2010
- 20 pct. of budget can be transferred to international calls
- Anyone can apply. Objective: To support the best Danish research
- DCIR can at any time support and match the objective of a strong Danish participation in international research collaboration.
- Examples: Int. guest researchers, postdoc scholars abroad and efforts to attract top int. research talents to Denmark.
- Mutual int. mobility: DCIR and NSF: Joint special effort to give information on postdoc’s funding or research stay in DK or US.
- More here.
DNRF support of research collaboration

- **Nordic Research Opportunity Program (NROP):** Partnership w. NSF: Visiting scholarships to graduate research fellows at DNRFs Centers of Excellence for up to 12 months. More [here](http://www.dg.dk/en/).

- **Professorship programs:** The “Niels Bohr Visiting Professorship” and the “DNRFS’s Professorship”, More [here](http://www.dg.dk/en/).

- **Talent Recruitment:** New special talent-recruitment initiative targeted to the DNRFs existing Centers of Excellence. More [here](http://www.dg.dk/en/).

NSF support of research collaboration

• **Nordic Research Opportunity Program (NROP):** A partnership with NSF: Visiting scholarships to graduate research fellows at the foundation’s Centers of Excellence for up to 12 months. See [here](http://www.nsf.gov/).

• **International Research Experiences for Students (IRES):** A three-year NSF grant to support a Danish-U.S. collaboration for post. docs; “the best and brightest”. Learn more [here](http://www.nsf.gov/).

• **Integrative Graduate Education and Research Traineeship Program (IGERT):** Int. and interdisciplinary research experience of grad. students, requires a US and Danish researcher partnership, Costs for the students, travel costs, housing, stipend, approx. 6-8 weeks visiting stay in DK is covered. See [here](http://www.nsf.gov/).

Success story I
Ipower

25 million USD/5 y
32 partners
UC Berkeley (CITRIS) partner

IPower Platform

In 2025, 50% of Denmark’s electricity comes from wind energy. This ambition will IPower Platform honor by developing an intelligent and flexible energy system that can handle a fluctuating power generation.

www.ipower-net.dk
Success story II

UC Davis-UC Santa Cruz-Aalborg: USD 70 K

2011 CITRIS Seed Funding Awards

June 2, 2011

Intermittency-friendly and Super-efficient Tri-generation (Combined Production of Electricity, Heating, and Cooling) to Support Large-scale Penetration of Renewable Sources in Buildings and Cities

Ali Shakouri, UC Santa Cruz, Morten Blarke, Aalborg University and Bryan Jenkins, UC Davis

Welcome to **US-DK Research Funding**, an online tool that facilitates Cross-Atlantic research collaborations.

Denmark was proud to sign the bilateral science and technology agreement with the US in September 2009. Within a range of areas our two countries have some excellent research communities with far-reaching potentials for further collaboration.

To strengthen the future collaboration between the two countries, this site is a gather of relevant information for students, researchers, scientists, and others who want to enhance research collaboration between Denmark and the US. Here you can find a database of Danish and American research funds, information on research agreements between Denmark and the US.


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