



# COST STSM Application Form

To be sent by the applicant as attachment by e-mail together with all the documents he/she would like to submit to support the application (full CV, detailed work plan, motivation, etc.) to the

- \* Host (who will send his agreement to host the applicant to the MC Chair)
- \* MC Chair for evaluation and approval

**COST Office Science Officer:** DR GIUSEPPE LUGANO, [giuseppe.lugano@cost.eu](mailto:giuseppe.lugano@cost.eu)

**COST MC Chair:** PROF. PIERRE PAROT, [parot@cea.fr](mailto:parot@cea.fr)

**COST STSM Manager:** PIERRE PAROT, [pierre.parot@cea.fr](mailto:pierre.parot@cea.fr)

**COST STSM Reference Number:** COST-STSM-TD1002-12149

**Period:** 2012-11-12 00:00:00 to 2012-11-16 00:00:00

**COST Action:** TD1002

**STSM type:** Regular (from Spain to Germany)

**STSM Applicant:** Mr Tomás Luque, Biophysics and Bioengineering Unit (University of Barcelona), Barcelona(ES) ,  
[tomas.luque@ub.edu](mailto:tomas.luque@ub.edu)

**STSM Topic:** Standarization in Cell Mechanics Measurements

**Host:** Manfred Radmacher, Institut fuer Biophysik (Universitaet Bremen), Bremen(DE), [mr@biophysik.uni-bremen.de](mailto:mr@biophysik.uni-bremen.de)

## Budget Request: Year-2012

Travel	300 Euro
Subsistence (hotel/meals)	400 Euro
Total	700 Euro

## Short CV:

date of birth: 21/01/1985

higher education degree:

- Physics Degree (University of Barcelona)
- Biophysics Master (University of Barcelona)

## Work Plan Summary:

The goal of the project `Standarization in Cell Mechanics Measurements` is to compare our method to measure the elastic modulus with that of the host lab.

The following techniques and procedures should be assessed:

- Preparation of polyacrilamide gels
- Determination of experimental acquisition settings
- Calibration of the photodiode and the spring constant
- Tip-sample contact models
- Data processing



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I request the approval of a COST Short Term Scientific Mission as described above

Applicant

Mr Tomás Luque

30 Oct 2012