PROTOCOL 0.1 – Protocol of Access to the Clean Room

- The reading and assimilation of this document is a requirement for achieving the “Qualification 0.1” to access the Clean Room

- The rules and regulations contained in this document will be followed as far they don’t interfere with affected CSIC official regulations and rules.

DOCUMENTARY INFORMATION

Documentary Drafting and Adoption

This document was written by Eduard Figueras and the GICORG Commission of the IMB-CNM Institute Board and reviewed by the Cleanroom staff.

This document and subsequent revisions will be kept by the Director of Operations of the ICTS (see ICTS directory in the Annex III of the document).

This document is approved by the Institute Board at its meeting on Bellaterra, on 15th of May, 2009

This document is effective from the following day of approval.

Documentary control

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## INITIAL CONSIDERATIONS

### 1. Initial considerations

The ICTS–Clean Room is a CNM scientific facility with controlled environment used for the fabrication of micro and nanoelectronic devices. This requires a vast reduction of elements that may create environmental pollution, such as dust, aerosol particles, chemical fumes or particles coming from the body or dress of people working inside (such as cells skin makeup, hair, sweat ions or body fat, fiber fabrics, etc.). These risks require a proper behavior and way of dressing that must be strictly respected by all personnel who need to work in the facility.

Paper, pencils and pens, packaging materials and many other products can be also sources of unwanted contamination within the CR and consequently they are not allowed. Therefore, to enter the clean room it is necessary to observe the necessary precautions and personal hygiene to avoid introducing particles and contamination inside.

There is not a single type of Clean Room for Micro-nanofabrication, so it is mandatory to become familiar with the rules and policies of the installation of the CNM, even though you have already gained experience in other similar facilities.

#### 1.1 Main purposes of this document

This document exposes the rules and instructions to follow to get in and out of the Clean Room, and the basic behaviour and safety rules that must follow everyone who access the ICTS IMB –CNM Clean Room.

The access to Clean Room is restricted only to people demonstrating the basics of procedure, following the conduct norms and safety protocols that are described herein.

Having the "Qualification 0.1" implies knowing the rules and instructions contained in this document and consequently accepting and following them. Provided that, it also means to be included in the "Register of Persons Authorized to Access cleanroom" list (REPAS). Submission of Annex IV of this document to the Director of Operations of the ICTS is mandatory. The signature is absolutely required to guaranty that you will act as attest accordingly.
This is an informative document with an educational nature line. The procedure for obtaining the "Qualification 0.1", which provides access to the Clean Room of the ICTS, is detailed in Note GICORG 0.

It is advisable to supplement the information provided in this document with any of the available videos on the web and/or IMB-CNM intranet, or by attending a specific course on clean room conduct procedures.

1.2 Application of this document

1.2.1 This document is applicable to all staff that has the "Qualification 0.1" and therefore are accredited for accessing the Clean Room and registered in the REPAS list.

1.2.2 Knowledge of this document does not allow using any Clean Room equipment except optical microscopes and basic inspection or measurement systems.

1.2.3 Any amendment to the rules contained in this document, cancellation or addition of new ones will lead to a new version. In any case this new version will be announced in the SAS and eventually will be communicated by e-mail to people on the REPAS list.
1.3 Clean Room map and Common Terminology

Clean Room Map

1. Pre-SAS
2. SAS
3. Confocal lab
4. Microsystems Lab.
5. Perimeter Corridor
6. Ion Implanter Area
7. Inspection Area / Annex Area
8. Atmospheric Furnaces
9. Photolithography-CMOS
10. Low Pressure Furnaces
11. Steppers Area
12. Planning/Wafers
13. Wet Etching
14. Mixt Zone
15. Nanotechnology Area
16. MNC Photolithography
17. RIE-Sputtering Area
18. RIE-Sputtering Service Corridor
19. Gases Warehouse
20. Chemical Warehouse

Fig. 01. CR General Plane
CLEAN ROOM ACCESS

2. **Clean Room Access**

2.1 **Clean Room Timetable and Calendar**

2.1.1 The timetable and calendar of the Clean Room is available on the web and/or on intranet of IMB-CNM.

2.1.2 The "Qualification 0.1" is required to be included in the list of people with authorization to enter the Clean Room (REPAS) and for the activation of the control card that provides the access to the Clean Room.

2.1.3 Out of the stated opening periods it will be necessary a specific authorization from the Director of Operations of the ICTS to gain access to Clean Room and its annexes, except in emergency interventions.

2.1.4 It is not allowed the access into CR to anyone who does not have the "Qualification 0.1" updated. Visitors could in any case access the Clean Room with the proper authorization of the Director of Operations of the ICTS and always being accompanied by a member of the IMB-CNM staff (who must be already registered in the REPAS list).

2.1.5 The Director of Operations of the ICTS may temporarily deny access if he considers that there is an over occupancy, depending on the conditions and workload of every moment.

2.2 **Access to pre–SAS**

2.2.1 The entrance to the Clean Room is exclusively done through the door that connects the Clean Room with the IMB-CNM main building, as depicted in figure 02.

2.3 **Using the SAS to enter the Clean Room**

2.3.1 Take a pair of plastic shoe-covers from the metallic container on the left, besides the benches (numbered 4, see Fig 2). Sit down on one of the benches that divide the SAS in two areas and put the shoe covers. Once you have put them, be careful to step only on the blue carpet that is on the clean side of the bench/SAS.
1. Cabinet with clothing for CR staff
2. Shelves and cabinet with clothing for CR staff.
3. Clothes shelves for users and visitors.
4. Benches and seats.
5. Wardrobe, Warehouse for CR exclusive use
6. Side table with masks and gloves.
7. Air shower.
8. Toilet, Medical kit.
10. Special dressing room area.

Fig. 02. SAS: Components of the Dressing Room Area.

2.3.2 Step the blue carpet only after having the shoe-covers put, never with your bare shoes.

2.3.3 The engineering, maintenance or process staff of the Clean Room uses the white work suits and the rest of Clean Room users must clothe the green ones.

The dressing instructions are available in each SAS. To identify which suits must be used, follow the instructions in the SAS, or ask to the clothing responsible (see Annex III) in the case of any doubt.

Get dressed according to the established sequence: hood, coverall, booties or gaiters, mask and gloves as shown in Figure 06.

1º hood  2º coverall  3º booties  4º mask  5º gloves

Fig. 03. Proper dressing sequence.
Verify that the neck of the hood is completely inside the work suit. The gaiters should cover legs of the coverall. The hood should fit the head. Check this by turning your head; it should not rotate within the hood. Put the mask on first and gloves after. The mask should completely cover the mouth and nose, and mustache and beard if any. Both the mask and the gloves can be found on the table in front of the shower entry (num. 6).

2.3.4 Look at yourself in the mirror and check that you wear your cuffs inside the gloves and the neck of your clothes properly closed before entering the air shower.

2.3.5 The entrance to the Clean Room from the SAS is exclusively done through the air shower (num. 7). Note that the door that connects the SAS with the Clean Room is only to get out (from CR to SAS). Thus, if you got out to the SAS, and want to get back into the Clean Room, you must go through the air shower again.

2.3.6 Pull out the door to access to the air shower corridor. The air shower will start automatically once you close the door. If it does not start, please re-open and close the door again. Note that the air shower system has on/off controls outside, in addition to an emergency stop button inside.

2.3.7 The air shower is intended for a maximum usage of four people at the same time. Please stand in line, each person should remain located in a different section of the air shower.

2.3.8 Once the airflow of the shower starts, separate your arms slightly from your body and rotate slowly so that the air jets of the shower can act on the entire surface of your Clean Room clothing and face.

2.3.9 Once the shower stops, push the opposite door and enter into the Clean Room.

2.4 Using SAS to go out of the Clean Room.

2.4.1 Leave the Clean Room exclusively going through the SAS except in emergencies.

2.4.2 Please, go out to the SAS only through the door on your right, not through the air shower.

2.4.3 See detailed information about how to un-dress and leave the clothes, in the SAS.
For undressing, act in the opposite sequence of dressing (see fig.07). Please do not remove your hood before taking out your coverall work suit, to avoid that the retained remains between the hood and your head go to your coverall work suit and gets dirty as a result.

![Sequence to properly undress](image)

The gloves and mask are non-recyclable. Please throw them to the dustbin of the SAS in the blue carpet area.

Carefully hang the coverall work suit and the hood up on the hanger. Place the booties on the bottom shelf as shown in figure 05.

![How to put the booties and the coverall work suit and hood on the hanger properly](image)

2.4.4 Once being outside the blue carpet area, take off your shoe covers, throw them in a dustbin and go out to the pre-SAS.
2.5 **Things to consider before leaving the pre-SAS**

2.5.1 Check that you pick your objects back from the wardrobe.

2.5.2 Verify that the access doors of the perimeter corridors are closed.

2.5.3 Take your shoe-covers off.

2.5.4 Your exit has to be recorded for security reasons. Please slide the card through the reader on the right of the door. However, you can go out pulling the handle.

2.6 **Access to the perimeter corridor.**

2.6.1 If necessary, the access to the perimeter corridor is free to all staff that has the "Qualification 0.1" and it is accessible exclusively from the pre-SAS.

2.6.2 First, follow the instructions to access to the Pre-SAS (see point 2.2).

2.6.3 Go through the corresponding door on the left or right corridor and take a pair of shoe-covers and put them on.

2.7 **Specific regulations on entering products and tools inside the cleanroom.**

2.7.1 It is not allowed to enter any kind of equipment, material and/or consumable products without specific authorization of the Head of the ICTS.

2.7.2 The Clean Room provides you of any writing material that you may need to take notes, like special Clean Room paper or pens, so in principle it is forbidden to enter any similar material for that purpose.
2.7.3 It is not allowed to enter and store cardboard boxes or any type of packaging which are not specifically made for the Clean Room, although it could be allowed for maintenance reasons under the CR staff supervision. Remember that in any case such actions should always be performed away from clean process workplaces.

2.7.4 It is not allowed to introduce food or drinks, candies or chewing gums, etc.

2.7.5 All material (previously authorized) must be wiped and vacuum cleaned in the SAS area before being introduced into CR.

2.7.6 If you need to enter small size material (previously authorized) without going outside, you can use the wall-through window of the perimeter corridor (see figure 11).

Fig. 07. Location of the wall-through window
BEHAVIORAL RULES

3. Behavioral rules

3.1 Behavior in the Clean Room

3.1.1 The behavioral rules have been created in order to ensure safety of the clean room users and also to reduce particles in the ambient and wafer pollution or contamination.

3.1.2 For security and cleanliness/contamination reasons, wearing gloves and mask is mandatory inside the Clean Room. Only maintenance works can be done without gloves, whenever parts to be replaced or repaired are not going to be in direct or indirect contact with wafers or process samples.

3.1.3 Do not touch your face with the gloves to prevent they become dirty with fat from the skin and also to avoid contamination of your skin with dangerous substances (chemicals, nanoparticles…) that can be present in the gloves coming from process.

3.1.4 Do not touch the clothing with the gloves as far as possible. Despite clothing is special and clean, it is still the largest source of pollution that exists in the Clean Room. Gloves are also an important cause of pollution, specially as they use to be close to process and samples.

3.1.5 If at any time you touch your face, or the ground or any equipment part which is not perfectly clean you should replace your gloves with new ones.

3.1.6 Routinely, check if your gloves are clean and undamaged. Do not touch door handles with dirty gloves or with bare hands to avoid contamination through transfer.

3.1.7 When working in wet chemical benches, you should remain at least 5 or 10 cm away from the edge of the benches and rinse cuvettes. Notice that any person who is working in a chemical bench must be authorized by the corresponding qualification process and must observe the handling rules for chemicals.

3.1.8 During wafer inspection, keep a straight body posture and keep the samples, wafers and their transport or storage boxes at a certain distance away from the body so to assure the cleanliness.

3.1.9 Do not run and try not to make sudden or violent movements within the Clean Room in order to avoid air turbulences and spreading of particles.
3.2 Cleanliness and Contamination

The CMOS and compatible technologies are the back-bone of the Clean Room, and thus, special restrictions are taken to ensure appropriate conditions for keeping its performance. For this reason potential contamination risks on equipment and other objects must be avoided. These risks are basically of two types:

a) Alkali ions (Na+, K+), which can produce mobile charges inside the gate oxide of a transistor and the corresponding instabilities in threshold voltage.

b) Metal contaminants, which can produce deep levels in the band gap of silicon, and may produce a reduction of the lifetime of the minority carriers within silicon wafers.

Some noble metals (Au, Pt, Pd, Ag,…) are specially problematic because they are almost impossible to be removed by the conventional cleaning processes used in a CR. The most critical systems/area at this concerning are the oxidation – diffusion furnaces, because of the high temperatures involved which facilitates the diffusion of metals inside the semiconductors.

Thus, a special effort is put in the Clean Room operation to avoid contamination and cross contamination of samples and equipment because of the manipulation of samples using non suitable tooling and equipment. In order to know which samples can be processed with which pieces of equipment, a simple classification of equipments and samples is used, as explained here:

3.2.1 “Clean equipment”. Equipment not contaminated with undesired ions or metals. It can only process samples that are of a contamination/cleanliness level compatible with CMOS technologies.

3.2.2 “MNC Equipment”. Equipment that can process “contaminated” samples, for example with noble metals.

3.2.3 “Mixt equipment”. clean and MNC samples can be processed with those equipments, as far as some specific accessories for each type of samples are used.
Also, for easy differentiation of samples, the wafers are stored in two types of boxes:

(1) Blue and White (transparent) boxes for clean/CMOS wafers.

(2) Black (or white with a red asterisk marked on the plastic) for MNC wafers.

In order to identify tools or accessories of MNC or potentially contaminated equipment, they are marked with a red asterisk or with the MNC letters on. This happens for example, with the tweezers used to pick and handle wafers. The basic rule to avoid cross-contamination is to respect the boxes and tools associated with each equipment/process according to the explained typology and classification.

### 3.3 Specific Rules for inspection of samples

3.3.1 The users of the Clean Room (except for people of CR staff) are authorized to inspect ONLY the samples of the "runs" for which they are responsible.

3.3.2 Process wafers/samples are stored in a cabinet under a nitrogen flow. No one except people of CR staff is allowed to remove samples from there. Please ask the responsible of the Standard Production to locate and deliver them to you if necessary.

3.3.3 Once the inspection is finished, please place the wafers in the same box with the same distribution and position as they were found.

3.3.4 Note that the wafers deposited in a black box are contaminated or MNC. In that case and for inspection you must use the appropriated tweezers and holders and put a piece of CR wipe on the microscope stage to prevent cross contamination. Please ask to the Standard Production Responsible in case of any doubt.

3.3.5 After the inspection, please return the box with the samples to the Responsible who will take care of them. Don’t return the box to the nitrogen cabinet by your own.

3.3.6 Each equipment and inspection system have their own tweezers and utensils with their specific use. It is important that they should not be used for another task, or equipment, and should not be moved to other locations under any circumstance.
ABOUT SECURITY

4. About security

4.1 Security systems

The CR has the following security services and systems (see figure 11):

4.1.1 Leak detectors of toxic and explosive gases.

The leak detector status indicator consists of a set of 3 lights. Don’t confuse them with the ON/OFF lights that some process equipments have installed. According to the map in figure 12, there are 4 of those leak detector indicators. One is located in the central corridor of the Clean Room, in front of the photolithography area. Another is in the central corridor in front of the wet benches room. The third is in the RIE–Sputtering area and the fourth above the Nanolithography access door.

The meaning of each colour is as follows:

- **Green (on)**: system is working correctly.
- **(off)**: a failure in the system is detected.
- **Yellow (on)**: gas is detected above a certain concentration, but below the level of risk (half of the TLV).
- **Red (on)**: gas is detected above the level of risk. At the same time a loud and discontinuous horn alarm will be audible.

(NOTE: The larger blinking red light next to the gas leak detection lights indicates only that some gas is finished, so it does not represent a dangerous situation).

4.1.2 Air/vapour extraction systems, which usually are individual to each gas cabin, chemical bench, oven or any other equipment that may need them.

There are independent circuits of extraction by risk areas:

- Acid vapours
- Solvent vapours
- Explosive vapours/gases
- Toxic vapours/gases
- Hot Air
4.1.3 Smoke detection system (fire system) with automatic "inergen" gas discharge.

This gas is a mixture of inert gases which reduces the oxygen concentration, so you can safely breathe for a time. The detection and firefighting is done in CR by compartments or areas of risk. In case of detection of a fire, an alarm will sound with an acute noise, before the discharge or activation of the extinguishing gas.

It should be noted that activation of the inergen produces a notable noise, due to the sudden expansion of the compressed gas. Take into account that there is a delay between the alarm activation and the activation of inergen (about 20 seconds).

4.1.4 Elements of personal safety.

- **Medicine first aid kit** (in the toilet in the main SAS),

- **Face masks and anti-acid gloves** available at several locations.

- **Masks for dangerous gases**, to be used for handling gas bottles and clean reaction chambers where these gases are processed, only by authorised staff having the necessary qualification accredited.

4.1.5 Other Safety elements

- **Emergency** Shower, **eye-wash** and **water pistols** close to all chemical benches and rinsers.

- **Fire extinguishers and hoses**, only in the perimeter corridor.
4.2 Basic safety rules

4.2.1 Do not access the CR if there is not at least another person inside or accompanying you. Please ask the reception staff to be sure that there is another person inside.

4.2.2 In the case that there are only two people in the CR and one of them has finished his/her work and decides to leave, this person should alert the other one about this situation before leaving the CR in order to prevent that the other person stays left alone.
4.2.3 The CR staff may not follow rules 4.2.1 and 4.2.2 if they consider that it is strictly necessary and as far as somebody from the outside of the Clean Room, such as the guard/entrance concierge or someone with any CR responsibility (Director of operations of Clean Room, Facilities and Maintenance Responsible or Standard Production Responsible), know that there is a staff member nearby also working inside the CR, in the annex facilities building, or in the Institute of Microelectronics building.

4.2.4 Do not run in the Clean Room or perimeter corridor.

4.2.5 It is strictly forbidden the wafer handling, equipment processing and services or chemical material manipulation without the proper authorization.

4.2.6 Do not access to the service corridors without permission. Only CR and maintenance personnel are authorized.

4.2.7 Use face screen or safety glasses in the occasions when there is a high risk of breakage of the wafers or chemical splash.

4.2.8 Please, always use the gloves and keep them in good conditions.

4.2.9 Please, be careful and do not touch your eyes or your face with the gloves.

4.2.10 If you are inside the CR as an observer of chemical etching procedures, whereas the staff is working on a stack of rinse or chemical benches, you should use a facial protection screen, too.

4.2.11 If you think there is any chance that you have been in contact with acid, rinse the suspicious area abundantly during several minutes. There are emergency pistols and systems with deionized water close to all chemical benches and rinsing piles. Remind that there is also a shower with the same purpose in cases where the affected area is more extended.

4.2.12 In case of burns with HF, rinse the affected area thoroughly with water and apply a powder or gel composed of calcium gluconate. This compound can be found in the Wet attacks Room (to the right of the door), in the Mixt Room (on the Quimipol chemical benches) and in the Diffusion Furnaces Room (on top of the chemical bench).
4.3 **Gas leak alarm**

4.3.1 When the presence of a toxic or explosive gas is detected in the exhaust/ventilation system in a proportion above the level of alert, a discontinuous Horn sound alarm is activated. The gas detectors are generally placed at:

- Gas pressure regulators panels
- Flow meter Cabin of the process equipments
- The gas supplying cabinets.

In this situation, the automatic security system will close the bottle and, through the extractions, the gas will be removed directly outside.

4.3.2 Do not hurry, leave what you are doing and obtain information about the incident from the Responsible of Standard Production or any other member of staff of CR Maintenance. Look at the Gas System indicator lights. If the yellow light is on you can wait for a responsible to check the alarm and who will give you the appropriate information about it. If the alarm remains it is advisable to leave CR within few minutes. If the red light is on, you must leave immediately CR. In any case, especially in case of any doubt, you can evacuate the CR and inform to the maintenance and emergency phone numbers listed in Annex I. Exit through the SAS if it is possible.

4.3.3 Do not open any gas pressure regulators panel, vapor extraction cabin or flow meters cupboard. The system automatically closes the affected bottles.

4.3.4 Do not open any equipment which operates with toxic or explosive gases.

4.4 **Fire alarm**

4.4.1 When the Fire alarm (a continuous strident tone) is activated, please stop immediately what you are doing and leave the CR. Take the nearest emergency door to go outside according to the map enclosed. It is no necessary to use the SAS to get outside.

4.4.2 It is very important TO CLOSE ALL THE DOORS when leaving CR. The opened doors facilitate the spread of fire.
4.4.3 You can only take your CR clothing off once you are save outside from the CR enclosure.

4.4.4 The meeting point is at the entrance of MATGAS building, next to Cerdanyola - Bellaterra road.

4.4.5 Please wait at the meeting point until the evacuation or security responsible has verified if all the people that were inside the CR are present and in safe condition.
ANNEX I: EMERGENCY SUMMARY

INSIDE OF SB

Continuous Siren: EVACUATE
Discontinuous Hooter: ALERT

Please follow the instructions of the closest Responsible person

Gas detector light in red: GET OUT
In case of doubt: GET OUT

WHEN ENTERING

Pilot light of Pre-SAS off: KEEP OUT AND WARN

If the gas state pilot repeater at the entrance of SAS is not lighting in green, please do NOT ENTER. Please notify and wait for the Facilities Maintenance Responsible instructions, or in his absence, to the ones of the CR Coordinator Manager.

Caution: Do not confuse the gas detection lights with the light signals of some of the process tools and systems (Implanters, RIEs...) which indicate their operational status.
Emergency telephones

IMB-CNM Management  ____________  Ext. 2478
Campus UAB Security  _____________  93 581 25 25
Emergency Service  ________________  112
Health Care Service  ________________  061
FREMAP (24h Insurance Co.) _________  900 61 00 61
UAB Health Care Service:  ___________  93 581 18 00 / 19 00
National Institute of Toxicology  ________  91 562 04 20
ANNEX II: SB BANNERS.

ACCESS TO THE PERIMETER CORRIDOR

Abans de passar, RECORDEU...!!!

Antes de pasar, RECUPERDA...!!!

Before to go in, REMEMBER...!!!

REMIND BEFORE ENTRY

SAS BANNER

Seqüència per vestir-se

Seqüència per desvestir-se
ANNEX III: ICTS Directory

Index of staff with specific responsibilities in this document (Protocol 0.1 access to Integrated Clean Room for Micro and Nanofabrication of ICTS) and their telephone extensions:

- ICTS Management: Manuel Lozano Fantoba 2478
- Clean Room Manager: Miguel Zabala García 1060
- Technical Facilities and Maintenance Responsible: Xavier Mas Pla 1068
- Clean Room Facilities
  Mornings: Xavier Mas 1068
  Afternoons: Roger Cot 1074
- Mechanical Workshop
  Antonio García Simón 2538
- Electronic Workshop
  Antonio Garzón 1055
  Javier Bermúdez 1054
- Clean Room Costume Responsible
  Mornings: Elena Chica 1056
  Afternoons: Marcos Lechón 1402

- **Clean Room staff** (Alphabetical list)

  Ayesta Urquiza, Xabier
  Bermúdez, Javier
  Borrisé Nogué, Xavier
  Calvo Angós, José
  Castillo Espinosa, Mª Encarnación
  Cirera Perich, Josep Maria
  Cot Borrás, Roger
  Chica Gordillo, Elena
  Duch Llobera, Marta
  Garcia Simón, Antonio
  Garzón Rus, Antonio
  Gerbolés Gibert, Marta
  Gibello Bote, Carmen
  Lechón Alonso, Marcos
  Mas Pla, Xavier
  Mas Colomina, Roser
  Mateu Mañé, Carles
  Montero Suárez, Isabel
  Montserrat Martí, Josep
  Muñoz López, David
  Sáenz Gacia, Antonio
  Sánchez Amores, Ana Mª
  Sánchez López, Javier
  Sarrión Romero, Mónica
  Solé Díaz, Libertad
  Suárez Narbona, Fernando
  Zabala García, Miguel
Clean Room telephones

- Showers output from SAS: 1402
- Inspection Area: 2301/1056
- Photolitho CMOS Area: 2302
- Steppers Area: 1065
- Wafers Area: 2306
- Photolitho MNC Area: 2308
- RIE Area: 1058
- Metal Area: 2307
- RIE/Sputt. Srvc. Corridor: 1067
- CMOS Baths Area: 2304
- Microsystems Laboratory: 2238/1404
- Basement (Pumps): 2310
- Nanotechnology Area: 2309/1064
- MNC/Mixt Area: 2305
- Electroplating/CVD-MNC: 2303
- Control Room: 1409
Separate the next sheet, the Application Form, or alternatively find it in the IMB-CNM ICTS web page. Fill it, deliver or send it to the Clean Room Manager, and he will send you the acceptance confirmation to be included in the REPAS list which allows you to access the CleanRoom.
CLEAN ROOM OF INTEGRATED MICRO AND NANOFABRICATION
“Qualification 0.1” Application Form

Mr/Ms ................................................................................................................................................................
With ID/Passport ...............................................................................................................................................

☐ Asks for “Qualification 0.1” that enables you to access to the IMB-CNMI (CSIC) Micro&Nanofabrication Clean
Room with the object of:

☐ Admits that has read, understood and assimilated the document entitled “Protocol 0.1 of Access to Integrated
Micro&Nanofabrication Clean Room (CSIC ICTS)”, and accepts the compromise of accomplishing the rules
stated in the document.

In addition you are committed to read and assimilate corrections, additions, or reissued versions, on documents
produced in the future and follow the established rules and procedures. In particular accepts to attend meetings and
courses of information concerning behaviour inside the Clean Room, whenever requested to do so.

WORK ADDRESS
Centre/Department:

Street :

Postcode , City , Country:

Telephone number:

e-mail:

Declares that financial charges arising from this access shall be assumed by (Project, Department, Center):

Bellaterra, on of 201_

To be approved by the Responsible
to assume economical charges. Applicant Signature__________________________

Form 1-080810-PR-1