

Service Work Committee report

S. Niccolai, IJCLab Orsay, CLAS Collaboration meeting, 11/13/2020

The web interface is **open** and the **SoS submission deadline is approaching: 12/15/2020!**

It is high time to prepare and submit your SoS's

Two Sos's must be submitted: one for 2020 (SW done) and one for 2021 (planned SW)

The Rule: **expected FTEs = 0.25*N** N=number of Full + Term Members per institution

**Reminder: 50% of the required SW for your institution
« should » come from the CLAS12 Task List (just completed)**

CLAS12 task list: SW tasks are listed, with

- Description of the work
- Skills required (sometimes, otherwise ask contact person)
- FTEs that the work will provide to your institution
- Contact person

PICK YOUR TASKS for next year!! Some are still vacant...

Once you picked a task, include it in you 2021 SoS

→You must email the contact person and he/she will assign you to the task←

Detector and RG contacts: please check the list and the assigned names

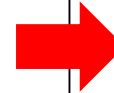
How to access the CLAS12 Task List

- Go to the main Hall-B web page (www.jlab.org/Hall-B)
- Click on « CLAS12 Service Work Task List »
- Log in into the interface
- Click on CLAS12 Tasks on the Option Menu

EXPERIMENTAL HALL B

CLAS Collaboration and Hall B

- Welcome to the CLAS Collaboration
- CLAS Collaboration Information
- Phonebook, Opt-in, and Database
- Shifts, Reviews and Service Work Login
- **CLAS12 Service Work Task List**
- Working Groups & Committees
- CLAS Speakers Committee wiki
- Meeting Schedules and Minutes
- Hall B Staff
- Awards



- View all the shifts currently assigned to you
- Change shifts passwords for anyone from 'ORSAY'
- Add or remove members from the **ORSAY** shift taker's list
- Assign names to shifts allocated to your institute
- Trade your shifts with someone else
- Swap shifts assigned to **ORSAY**
- Report service work done by members of **ORSAY**
- Contribute to CLAS12 service work
- Start or contribute to a paper or PAC review

- Show my shifts
- Change passwords
- Manage members
- Sign up for shifts
- Trade shifts
- Swap shifts
- Submit SoS
- CLAS12 tasks
- Reviews



Available tasks

BONUS	Simulation	BONUS12 simulations Expertise required:	Software	0.200	Sebastian Kuhn	November 10, 2021	One time task	none	Edit or DELETE
CTOF	Special projects	Optimize timing response Expertise required:	Software	0.200	Daniel Carman	November 10, 2021	One time task	none	Edit or DELETE
CVT	Special projects	CVT performance study Expertise required:	Software	0.200	Yuri Gotra	November 10, 2021	One time task	none	Edit or DELETE
CVT	Calibration	CVT calibrator Expertise required:	Software	0.100	Yuri Gotra	November 10, 2021	1 year	none	Edit or DELETE
DC	Simulation	Tune up tracking simulation Expertise required:	Software	0.100	Mac Mestayer	November 10, 2021	One time task	none	Edit or DELETE
DC	Software	Calibration code development and maintenance Expertise required:	Software	0.100	Veronique Ziegler	November 10, 2021	1 year	none	Edit or DELETE
DC	Special projects	Analysis of time-over-threshold information from cosmic measurements Expertise required:	Hardware	0.100	Mac Mestayer	November 10, 2021	One time task	none	Edit or DELETE
FT	Calibration	FT-Cal calibrator Expertise required:	Software	0.200	Raffaella De Vita	November 10, 2021	1 year	none	Edit or DELETE
HTCC	Reconstruction	Matching and timing Expertise required:	Software	0.200	Maurizio Ungaro	November 10, 2021	1 year	none	Edit or DELETE
LTCC	Hardware	LTCC maintenance Expertise required:	Hardware	0.200	Youri Sharabian	November 10, 2021	1 year	none	Edit or DELETE
Other	Run group tasks	RG-F data monitoring Expertise required:	Software	0.100	Sebastian Kuhn	November 11, 2021	1 year	none	Edit or DELETE
Other	Run group tasks	RG-F timelines for calibration quality/stability Expertise required:	Software	0.050	Sebastian Kuhn	November 12, 2021	1 year	none	Edit or DELETE
Other	Calibration	Beam parameters Expertise required:	Hardware	0.100	Nathan Baltzell	November 10, 2021	1 year	none	Edit or DELETE
POLTARG	Simulation	Tpoltarg simulation studies Expertise required:	Software	0.250	Eugene Pasvuk	November 11, 2021	1 year	none	Edit or DELETE
RECON	Electron radiation studies	Study electron radiation using e-gamma events to understand the sources of the radiation in the data and compare it with GEMC. Study electron momentum correction using radiated photon energy Expertise required: Basic coding/analysis in Java or C++	Software	0.200	Stepan Stepanyan	February 28, 2021	One time task	none	Edit or DELETE
RECON	Alignment study	Study CD-FD alignment with tracks reconstructed by both tracking systems Expertise required: Basic coding/analysis in Java or C++	Software	0.200	Stepan Stepanyan	February 28, 2021	One time task	none	Edit or DELETE

Available tasks

RICH	Hardware	Aerogel characterization Expertise required:	Hardware	0.300	Marco Contalbrigo	November 11, 2021	1 year	none	Edit or DELETE
RICH	Hardware	Mirror characterization Expertise required:	Hardware	0.300	Marco Contalbrigo	November 11, 2021	1 year	none	Edit or DELETE
RICH	Hardware	RICH2 assembling Expertise required:	Hardware	0.300	Marco Contalbrigo	November 11, 2021	One time task	none	Edit or DELETE
RICH	Simulation	RICH simulation studies Expertise required:	Software	0.200	Marco Contalbrigo	November 11, 2021	1 year	none	Edit or DELETE
RICH	Calibration	Cherenkov angle calibration Expertise required:	Software	0.200	Marco Contalbrigo	November 11, 2021	1 year	none	Edit or DELETE
RICH	Calibration	RICH time calibration Expertise required:	Software	0.200	Marco Contalbrigo	November 11, 2021	1 year	none	Edit or DELETE
SOFTWARE	EB track-hit matching	Optimize cut values for non-LTCC based on geometrical residuals Expertise required: Basic coding/analysis in Java or C++	Software	0.050	Nathan Baltzell	January 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	HTCC timing in EB	Define criteria for use of HTCC timing in EB track-hit matching Expertise required: Basic coding/analysis in Java or C++	Software	0.050	Nathan Baltzell	January 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	GEANT4 simulations of the 100 kW beam dump	GEANT4 simulations of the 100 kW beam dump. The goal is to study energy and charge leakage to FC (see CLAS12 Note 2016-004) Expertise required: Basic coding/shell/scripting	Software	0.150	Stepan Stepanyan (Maurizio Ungaro)	June 30, 2021	One time task	none	Edit or DELETE
SOFTWARE	R1 GEM detector model in GEMC	Implement R1 GEM detector model in GEMC, This should include geometry and readout-digitization Expertise required: Basic coding/shell/scripting	Software	0.200	Stepan Stepanyan (Maurizio Ungaro)	June 30, 2021	One time task	none	Edit or DELETE
SOFTWARE	Documentation	Resurrect original HIPO analysis examples and documentation Expertise required: Basic coding in Java and C++	Software	0.100	Gagik Gavalian	December 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	HOWTOs	Develop examples/instructions Expertise required: Basic computing/shell	Software	0.050	Raffaella De Vita	December 31, 2021	One time task starting from 1/1/2021	none	Edit or DELETE
SOFTWARE	DC tracking cleanup	Significant code speedup available just by refactoring Expertise required: Advanced Java	Software	0.100	Vardan Gyurjyan (Veronique Ziegler)	January 31, 2021	One time task	none	Edit or DELETE

Available tasks

SOFTWARE	<i>CVT covariance matrix</i>	Study pulls to validate matrix and coordinate transformation Expertise required: Moderate coding/analysis in Java or C++	Software	0.100	Veronique Ziegler	January 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	<i>Beam-spot extraction</i>	Develop standard, documented tool to extract beam-spot position for CCDB Expertise required: Moderate coding in Java or C++	Software	0.050	Nathan Baltzell	December 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	<i>Multi-particle vertexing</i>	Complete and validate package for multi-particle vertexing Expertise required: Moderate coding in Java	Software	0.100	Veronique Ziegler	December 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	<i>Logging service</i>	Convert all printouts in COATJAVA to logging service Expertise required: Moderate Java	Software	0.100	Nathan Baltzell	December 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	<i>Geometry porting</i>	Porting detector geometries to new service Expertise required: Moderate Java	Software	0.100	Raffaella De Vita	June 1, 2021	One time task starting from 12/1/2020	none	Edit or DELETE
SOFTWARE	<i>GEMC geometry</i>	Investigate/fix geometry overlaps/issues (e.g. stuck tracks) in GEMC Expertise required: Moderate computing	Software	0.100	Maurizio Ungaro	December 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	<i>Geometry porting</i>	Porting detector geometries to new service Expertise required: Moderate Java	Software	0.100	Raffaella De Vita	June 1, 2021	One time task starting from 12/1/2020	none	Edit or DELETE
SOFTWARE	<i>Mya2ccdb</i>	Switch from Mya command-line tools to HTTP requests Expertise required: Moderate Python	Software	0.050	Nathan Baltzell	December 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	<i>Validation samples</i>	Develop tools to generate and organize standard validation samples Expertise required: Moderate computing/shell/script	Software	0.100	Nathan Baltzell	December 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	<i>Validation suite</i>	Develop tools to provide standard validation metrics Expertise required: Moderate Java	Software	0.100	Raffaella De Vita	December 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	<i>General validation studies</i>	TBD Expertise required: Basic coding/analysis Java or C++	Software	0.100	Nathan Baltzell	January 31, 2021	One time task	none	Edit or DELETE
SOFTWARE	<i>Energy-based hadron PID</i>	Study scintillator energy deposition for hadron identification Expertise required: Basic coding/analysis Java or C++	Software	0.100	Nathan Baltzell	January 31, 2021	One time task	none	Edit or DELETE

A big thank you to Raffaella and Dan for collecting the tasks

SoS submission tutorial

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Change shifts passwords for anyone from 'ORSAY'

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Assign names to shifts allocated to your institute

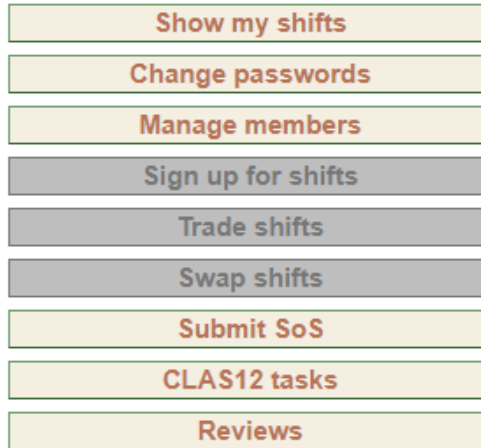
Trade your shifts with someone else

Swap shifts assigned to **ORSAY**

Report service work done by members of **ORSAY**

Contribute to CLAS12 service work

Start or contribute to a paper or PAC review



→ **Institution reps, click here to update your members list (works all year long)**

→ **Start SoS submission**

PLEASE READ THIS BEFORE CONTINUING [Service Work Instructions]

CLAS Service Work:

Please choose what you would like to report:

Service work performed in 2020 ▼

→ **Select 2020 or 2021 SoS (both will have to be done)**

In the next step you will review your group members list.

Next Reset Form

→ **Click « Next » and get to review your members list**

The members list should include all **TERM and FULL members** of your institution, plus you are free to include any other person (engineers, technicians) who has contributed to your SW. Their work will be counted, and they won't contribute to the expected FTEs.

If your list contains CLAS members that you want to remove, contact Bryan Mc Kinnon.

SoS submission tutorial

You'll have to fill a first page with your **CLAS SW** (this should be modified for the future), and then one with **CLAS12 SW**. Committee category right now is only available in « CLAS » page (also to be changed)

Category	Description	Who	FTE	Done	Documentation
Committee ▾	Chairman of the SWC	Silvia Niccolai ▾	0.1	100 %	Don't forget documentation! Web links, reports, talks, etc., or even names of people who witnessed to your work No doc needed if item came from the CLAS12 Task List (just write « From Task List »)
Committee ▾	Member of the CSC	Carlos Munoz-Camacho ▾	0.05	100 %	
Software ▾		Select name ▾	0	100 %	

Please double-check everything before proceeding to the next step.

Once done, save and go to next step →

Save and go to next step Reset Form

Execute submission

Add here any additional notes you might have (or simply leave blank):

Then, if everything is in order, please click the button below to finish submission:

Submit SoS

**Institution representatives:
don't forget to SUBMIT!**

**You can edit and resubmit as many times
as you want, before the deadline (and I
won't read your SoS until then!), so don't
be afraid of the Submit button!**

https://www.jlab.org/Hall-B/secure/sos/SW_Instructions.pdf

Tips/recommendations

- You need Service Work **to maintain the right to sign CLAS Collaboration papers**
- SW is computed for the INSTITUTION as a whole: if you want non-active members to sign papers, **you need to make up for their own SW fraction**
- SW done by **non-CLAS members** (techs, engineers, undergrads) of your institution **counts**
 - Include **documentation** to allow the SWC to evaluate your SW
 - Shifts do **not** count
 - HPS work does **not** count
 - Your own analysis work does **not** count
 - Writing a grant proposal or organizing a conference does **not** count
 - Supervising a student doing SW does **not** count
 - Preparing the SoS does **not** count ☺
- If you don't know what kind of SW to commit for next year, check the **Task List**, or contact me, or the CalCom, or the CLAS Chair, or all the three
- Please ask for **Term Membership for PhD students** that do SW for your institution