```
MPI Main
 Master:
 Subroutine Master_Job_fwdPred (m0,d,e0)
     1- Task = 'Distribute Model Parameters'
        -Send a copy of model parameters to all workers.
     2- Task = 'Solve Forward Problem'
        - Send the index of one transmitter to each worker
        - Receive the predicted data
 End subroutine
 Worker:
 Do
              Receive task from Master
    if task = 'Distribute Model Parameters' then
      Receive a copy of model parameters from Master
    if task = 'Solve Forward Problem' then
      Receive the index of one transmitter from Master
        Call fwdPred TX (m0,d,e0)
      Send the predicted data for one transmitter to Master
    if task = 'Stop' then
      EXIT loop
 Loop
```

b) c)

```
Serial version: i.e. inside NLCG
:
:
:
:
:
:
:
Call fwdPred (m0,d,eAll)
:
:
```

```
Serial/Parallel version: i.e. inside NLCG
:
::
::
#if def=MPI then
Call Master_Job_fwdPred (m0,d,eAll)
#else
Call fwdPred (m0,d,eAll)
#end if
:
:
:
```